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CATALOGUE

OF THE

PHÆNOGAMOUS AND FILICOID PLANTS

OF

NEWCASTLE COUNTY, DELAWARE.

ARRANGED ACCORDING TO THE NATURAL SYSTEM, AS RECENTLY REVISED BY PROF. A. GRAY AND OTHERS.

WITH THE

SYNONYMS OF MODERN AUTHORS.

BY

EDWARD TATNALL.

PUBLISHED BY THE WILMINGTON INSTITUTE.

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1860.

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41851

COLLINS, PRINTER,
705 Jayne Street, Philadelphia.

Statistical Comparison of Plants of Newcastle Coun'y with Plants of U. S. described in Prof. Gray's Manual.

		Alpine and Alleghanian.	Extreme Northern Limit.	Extreme Western Limit.	Extreme Southern Limit.	Very Local.	Prairie.	Maritime.	Other Localities.	Number of Square Miles.
Dr. Gray's Manual describes:	Phænogamous	153	135	98	135	109	61	63	1597	600,000
	Filicoid	4	8	2		6			55	
	Probably undiscovered	16	6	12	9		8	6	3	
	Total,	173	149	112	144	115	69	69	1655	600,000
This Catalogue enumerates:	Phænogamous								1066	512
	Filicoid								40	
	Probably undetected								96	
	Total,								1202	512
	Difference,	173	149	112	144	115	69	69	453	599,488

PREFACE.

A CATALOGUE of the Phænogamous and Filicoid plants of New Castle County was published by the Wilmington Botanical Society in 1844. Since that time, such changes have taken place in nomenclature and in the arrangement of natural orders and genera, as to render that Catalogue unsuited to the present state of botanical science. To this may be added, as of no less importance to our own observers, that a considerable number of plants previously undiscovered in the county, have recently been found growing within its limits.

The present Catalogue is published by the Wilmington Institute, a body incorporated in the year 1859 for literary and scientific purposes, and with which the Wilmington Botanical Society and the Delaware Academy of Natural Sciences have become united.

In the preparation of the Catalogue, the aim has been to record only such indigenous and naturalized plants as have been found in the county, together with a few whose proximity in the surrounding counties rendered their insertion proper. These are designated by a mark of interrogation (?) preceding the name of the species. Localities and the time of flowering are given, as also good common names whenever they could be found. The advantage of these particulars to our local botanists will be obvious.

Many of the residents of our portion of the State will be surprised and interested upon learning the fact exhibited by this Catalogue, that New Castle County, comprising an area of but 512 square miles, contains nearly one-half as many species and marked varieties as the entire Northern United States, comprising eighteen States, and to which may also be added "Canada East this side of the St. Lawrence, and the deep peninsula of Canada West"*—the whole including an area of 600,000 square miles.

The native and naturalized plants of this extensive area, described in the recently published botany of Prof. Asa Gray, number 2,426 species, whilst our Catalogue will be found to enumerate 1,106 species and marked varieties. When we consider the high northern latitude of a portion of the area alluded to, the extensive coast line, the elevated mountain chains, and the wide-spread prairies, and make allowance for the northern, marine, alpine, and prairie plants found only in such localities, the comparative richness of our own little county will be rendered still more striking.

The large adjoining county of Chester, in Pa., with an area of 738 square miles, contains but 983 native and naturalized species. It may not be improper to add, that the eminent botanist Dr. Wm. Darlington has expressed his belief that New Castle County possesses a richer flora than any other county in the Union. Surely, our lovers of nature may find something in this to awaken an interest in botanical science, or to stimulate their zeal in its pursuit.

The reason of this floral wealth may be found in the latitude of the county, approaching a middle position be-

* Prof. Gray.

tween the northern and southern portions of the Union, the proximity of the lower portion of it to the coast, a water boundary of 50 miles, streams penetrating the interior, with shores alternately covered and left bare by the tides, the variety of surface it presents, rugged hills, level plains, extensive meadows, sphagnous swamps, vast marshes, and almost every variety of soil to be found east of the Alleghany Mountains.

The compiler takes pleasure in acknowledging his indebtedness to Prof. A. Gray, of Cambridge; Dr. W. Darlington and Joshua Hoopes, of West Chester, Pa.; Dr. E. Michener, of New Garden, Pa.; Dr. G. Engelmann, of St. Louis, and others, for their kind assistance in the preparation of the Catalogue.

Appended are the names of a number of plants which may probably be found within our limits. This will at least show that completeness is not claimed for the present Catalogue. We are well aware that much remains to be done in the way of exploration, and are sure that efforts to extend the list would not be unsuccessful.

We are pleased to be able to add a list of species of Diatomaceæ and Desmidieæ, identified by Mr. Christian Febiger, of Brandywine, as existing in the vicinity of Wilmington. Whilst so much remains to be done in this attractive and comparatively unexplored field of microscopic research, we feel sure that any contribution to our knowledge of species and localities will be acceptable to observers elsewhere, and hope that it may both stimulate and facilitate the inquiries of others at home.

E. T.

Wilmington, April 26, 1860.

CATALOGUE.

SERIES I.

PHÆNOGAMOUS, OR FLOWERING PLANTS.

Class I. Dicotyledonous, or Exogenous Plants.

Sub-Class I. *Angiospermæ.*

Division 1.—POLYPETALOUS EXOGENS.

Order 1.—RANUNCULACEÆ. 1.

1. Clematis, *Linn.*
 Virginiana, *L.* (Virgin's Bower.)
 Damp soil along Brandywine, &c. Aug.
2. Anemone, *L.*
 Virginiana, *L.* (Tall Anemone.)
 Woods, &c. Common. July.
 nemorosa, *L.* (Wind flower.)
 Moist woods. Common. May.
3. Hepatica, *Dill.*
 triloba, *Chaix.* (Liverwort.)
 Woods. Common. April.
4. Thalictrum, *Tourn.*
 anemonoides, *Michx.* (Rue Anemone.)
 Hilly woods. Common. April.

(4. THALICTRUM.)

dioicum, *L.* (Early Meadow Rue.)

Rocky woods; Brandywine. May.

Cornùti, *L.* (Meadow Rue.)

Banks of streams, &c. Common. July.

5. RANUNCULUS, *L.*

aquátilis, *L.*; var. divaricatus, *Gray.*

Ditches; Cherry Island, &c. June.

Púrshii, *Richards.*

Ponds near Ogletown. Rare. June.

alismæfòlius, *Geyer.* (Spearwort.)

(flammula Am. auc.)

Lea's run. Rare. July.

abortìvus, *L.* (Small flowered Crowfoot.)

Low places. Common. April.

sceleràtus, *L.* (Celery leaved Crowfoot.)

Shallow ditches, &c. Common. July.

recurvàtus, *Poir.*

Woods. Frequent. June.

fasciculàris, *Muhl.* (Early Crowfoot.)

Hilly woods, &c. Frequent. May.

rèpens, *L.* (Creeping Crowfoot.)

Wet meadows. Common. June.

bulbòsus, *L.* (Buttercups.)

Pastures. Common. May.

àcris,[1] *L.* (Tall Crowfoot.)

Fields; Dupont's, &c. Rare. June.

6. CALTHA, *L.*

palústris, *L.* (Marsh Marigold.)

Alluvial soil, &c.; near Stanton, &c. Scarce. May.

7. AQUILEGIA, *Tourn.*

Canadénsis, *L.* (Wild Columbine.)

Rocks above Speakman's Mill and Rockland. Frequent. May.

8. DELPHINIUM, *Tourn.*

consólida, *L.* (Larkspur.)

Waste places; escaped from gardens. July.

[1] This and the last named species are acrid and irritant; the bruised leaves may be used as a substitute for mustard in external applications.

9. Hydrastis, *L.*
 Canadensis, *L.* (Yellow Root.)
 Rich woods; Hockessin; Dr. Michener. Brandywine; Garrett's Snuff mill. Not common. May.
10. Actæa, *L.*
 spicàta, var. alba, *Michx.*
 (A. alba, *Bigel.*) (White Cohosh.)
 Rocky hills near Will's Rock and Red Clay Creek. Frequent. May.
11. Cimicifuga, *L.*
 racemòsa, *Ell.* (Black Snakeroot.)
 Rich woods. Common. July.

Order 2.—MAGNOLIACEÆ. 2.

1. Magnolia, *L.*
 glaùca, *L.* (Swamp Sassafras.)
 Swamps. Common. Aug.
2. Liriodendron, *L.*
 Tulipífera, *L.* (Tulip Tree.)
 Rich soil. Common. May.

Order 3.—ANONACEÆ. 3.

1. Asimina, *Adans.*
 trilòba, *Dunal.* (Papaw.)
 (Anona and Uvaria, *Auc.*)
 Low, rich soil; Jessup's, &c. May.

Order 4.—MENISPERMACEÆ. 4.

1. Menispermum, *L.*
 Canadénse, *L.* (Moonseed.)
 Along Brandywine Creek. Frequent. June.

Order 5.—BERBERIDACEÆ. 5.

1. Caulophyllum, *Michx.* (Leontice, *L.*)
 thalictroìdes, *Michx.* (Blue Cohosh.)
 Deep rich woods along Brandywine and Red Clay Creeks. Rare. April.

2. PODOPHYLLUM, *L.*
peltatum,[1] *L.* (May Apple.)
Rich woods. Common. May.

ORDER 5*. CABOMBACEÆ. 7.

1. BRASENIA. *Schreber.*
peltata. *Pursh.*
Ponds; St. George's. Rare elsewhere. July.

ORDER 6.—NYMPHÆACEÆ. 8.

1. NYMPHÆA, *Tourn.*
odoràta, *Ait.* (Pond Lily.)
Ponds, &c.; New Castle Road and Delaware City.
Scarce. Aug.
2. NUPHAR, *Smith.*
ádvena, *Ait.* (Spatterdock.)
Ditches. Common. May—Sept.

ORDER 7.—SARRACENIACEÆ. 9.

1. SARRACENIA, *Tourn.*
purpùrea, *L.* (Sidesaddle flower.)
Sphagnous swamps; Thompson's. Rare. June.

ORDER 8.—PAPAVERACEÆ. 10.

1. PAPAVER, *L.*
somníferum,[2] *L.* (Poppy.)
Near dwellings. Not uncommon.
dùbium, *L.* (Field Poppy.)
Cultivated grounds. Not common. May.
2. CHELIDONIUM, *L.*
màjus, *L.* (Celandine.)
Waste places. Abundant. May.
3. SANGUINARIA, *Dill.*
Canadensis, *L.* (Bloodroot.)
Rich woods. Common. April.

[1] The root of this plant affords a valuable cathartic called Podophyllin.
[2] Opium and laudanum are obtained from this plant.

ORDER 9.—FUMARIACEÆ. 11.

1. ADLUMIA, *Raf.*
 cirrhòsa, *Raf.* (Climbing Fumitory.)
 Rocky hills near Will's Rock. Not common. July.
2. DICENTRA, *Bork.* (Dyelytra and Corydalis.)
 Cucullària., *DC.* (Dutchman's Breeches.)
 Damp woods. Frequent. Will's Rock, &c. April.
3. FUMARIA, *L.*
 officinàlis, *L.* (Fumitory.)
 Escaped from gardens. Frequent. May.

ORDER 10.—CRUCIFERÆ.[1] 12.

1. NASTURTIUM, *R. Br.*
 palústre, *DC.*
 Wet meadows; Tatnall's. Not uncommon. June —Sep.
 palústre, var. hispidum, *Gr.* (Marsh Cress.)
 Wet meadows; Cherry Island. Frequent. Aug.
2. DENTARIA, *L.*
 laciniàta, *Muhl.* (Toothwort.)
 Rich woods. Frequent. May.
3. CARDAMINE, *L.*
 rhomboídea, *DC.* (Spring Cress.)
 Near springheads. Frequent. April.
 rotundifòlia, *Michx.* (American Water-cress.)
 Shaded springs; Tatnall's woods, &c. Not common. May.
 hirsùta, *L.* (Bitter Cress.)
 Swampy rivulets. Common. May.
4. ARABIS, *L.*
 lyràta, *L.* (American Rock Cress.)
 Dry hills; Brandywine. Frequent. April.
 lævigàta, *DC.*
 Sandy banks of Brandywine Creek. Frequent. Apr.
 Canadénsis, *L.* (Sickle-pod.)
 Shady hillsides; Riddle's, &c. Common. June.

[1] A number of valuable cultivated plants, such as cabbage, radish, turnip, &c., belong to this family.

5. Barbarea, *R. Br.*
 vulgàris, *R. Br.* (Winter Cress.)
 Low grounds. Common. May.
6. Erysimum, *L.*
 cheiranthoìdes, *L.*
 Low ground above Brandywine Bridge. Very rare. July.
7. Sisymbrium, *L.*
 officinàle, *Scop.* (Hedge Mustard.)
 Roadsides, &c., everywhere. May.
 Thalianum, *Gaud.* (Mouse-ear Cress.)
 Dry fields. Frequent. April.
8. Sinapis, *Tourn.*
 nìgra, *L.* (Common Mustard.)
 Waste places, &c. Common. June.
9. Draba, *L.* (Erophila, *DC.*)
 vérna, *L.* (Whitlow Grass.)
 Dry gravel banks. Common. March.
10. Camelina, *Crantz.*
 satìva, *Cr.* (Wild Flax.)
 Wheat fields. Common. June.
11. Lepidium, *L.*
 virgínicum, *L.* (Wild Pepper-grass.)
 Roadsides, &c. Common. May.
 campéstre, *L.*
 Fields, &c. Common. June.
12. Capsella, *Vent.*
 Bursa-pástoris, *Mœnch.* (Shepherd's Purse.)
 Everywhere common. June.

Order 11.—VIOLACEÆ. 15.

1. Solea, *Ging., DC.*
 cóncolor, *Ging.*
 Rocky hills, Cuba rock, and third dam. Frequent. June.
2. Viola, *L.*
 lanceolàta, *L.*
 Alluvial meadows; Cherry Island. Frequent. May.
 primulæfòlia, *L.*
 Low grounds. Frequent. May.

(2. VIOLA.)

blánda, *Willd.*

Shaded low grounds. Not common. April.

cucullàta, *Ait.*

Low grounds. Common. April.

cucullata, var. palmàta, *Gray.* (V. palmata, *L.*)

Moist woodlands. Frequent. May.

villòsa, *Walt. Nutt.* (V. sororia, *Le Conte.*)

Dry hilly woods; Brandywine. Frequent. May.

sagittàta, *Ait.*

Old fields, &c.; McKee's. Frequent. May.

pedàta, *L.*

Sandy woods; Rodgers', &c. Rare. April—May.

Muhlenbérgii, *Torr.*

Low sandy ground; Brandywine. Frequent. May.

striàta, *Ait.* (V. ochroleuca, *Schw.*)

Low sandy soil; third dam. Common. May.

pubéscens, *Ait.*

Dry woods. Frequent. May.

pubescens, var. scabriúscula, *T. & G.*

Low sandy woods; third dam. Frequent. May.

ORDER 12.—CISTACEÆ. 16.

1. HELIANTHEMUM, *Tourn.*

Canadénse, *Michx.* (Frost Weed.)

Dry hills. Not common. June.

2. LECHEA, *Linn.*

màjor, *Michx.*

Dry open woods. Rare. Aug.

mìnor, *Lam.* (Pin Weed.)

Dry sterile soil. Common. Aug.

ORDER 13.—DROSERACEÆ. 17.

1. DROSERA, *L.*

rotundifòlia, *L.*

Sphagnous swamps, &c.; Thompson's. Frequent. July.

longifolia, *L.*

Sphagnous swamps; Thompson's. Frequent. July.

ORDER 14.—HYPERICACEÆ. 19.

1. ASCYRUM, *L.*
 Crux-Andreæ, *L.* (St. Peterswort.)
 Dry sterile banks. Frequent. July.
2. HYPERICUM, *L.*
 prolificum, *L.*
 Found near Newark, by R. Kilvington. Rare. July.
 perforàtum,[1] *L.* (St. Johnswort.)
 Fields, &c. Common. June.
 corymbòsum, *Muhl.*
 Open woods and fields. Frequent. July.
 mùtilum, *L.*
 Low grounds. Frequent. July.
 Canadénse, *L.*
 Swamps, &c. Frequent. Aug.
 Saròthra, *Mx.* (Pine-weed.)
 Dry sandy banks. Frequent. July.
2. ELODEA, *Adans.* (Hypericum, *L.*)
 Virgínica, *Nutt.*
 Swamps; Thompson's, &c. Frequent. Aug.

ORDER. 15.—CARYOPHYLLACEÆ. 21.

1. DIANTHUS, *L.*
 Armeria, *L.* (Deptford Pink.)
 Dry fields, near Cuba rock. Rare. July.
2. SAPONARIA, *L.*
 officinàlis, *L.* (Soapwort.)
 Waste places around gardens. July.
2. SILENE, *L.*
 stellàta, *Ait.* (Star Campion.)
 Dry hills. Frequent. July.
 Virgínica, *L.* (Fire Pink.)
 Dry banks below Bellah's quarry. Rare. June.
 antirrhìna, *L.* (Catch-fly.)
 Dry fields, &c. Frequent. June.

[1] The blossoms exposed to the sun in olive oil makes a valuable domestic application for bruises.

4. AGROSTEMMA, *L.* (Lychnis, *DC.*)
 Githàgo, *L.* (Corn Cockle.)
 Wheat fields. Common. June.
5. ARENARIA, *L.*
 serpyllifòlia, *L.* (Sandwort.)
 Dry sandy banks. Common. May.
6. ? MŒRINGIA, *L.*
 lateriflòra, *L.*
 Gravelly banks; probably near the Pennsylvania state line. May.
7. STELLARIA, *L.*
 mèdia, *Sm.* (Chick-weed.)
 Everywhere. Common. Feb.—Sept.
 longifòlia, *Muhl.* (Stitchwort.)
 Wet meadows. Frequent. May.
 uliginòsa, *Murr.* (S. aquatica, *Pollick.*)
 Wet meadows; Tatnall's. Rare. May.
8. CERASTIUM, *L.*
 Vulgàtum, *L.* (Mouse-ear Chick-weed.)
 Grassy banks. Common. May.
 viscòsum, *L.*
 Open woods. Frequent. May.
 nùtans, *Rafin.*
 Low grounds along Brandywine. Not common. May.
 oblongifòlium, *Torr.*
 Serpentine; Dixon's farm. Rare elsewhere. May.
 arvénse, *L.*
 Serpentine; Brown's farm. Rare elsewhere. May.
9. SPERGULARIA, *Pers.* (Arenaria *L.*)
 rùbra, *Pers.*
 Sandy ground; Collins' beach. Frequent. June.
 rùbra var. marìna, *Gray.*
 Sandy soil; Deakyne's landing. Rare. June.
10. ANYCHIA, *Michx.*
 dichótoma, *Mx.* (Forked Chickweed).
 Dry woods. Common. June.
11. SCLERANTHUS, *L.*
 annuus, *L.* (Knawel).
 Formerly found on rocks below Brandywine Mills. Delaware City. July.

12. Mollugo, *L.*
 verticillàta, L. (Carpet-weeds.)
 Cultivated ground. Common. July.

Order 16.—PORTULACACEÆ. 22.

1. Portulaca, *Tourn.*
 oleràcea, *L.* (Purslane.)
 Gardens, &c. Common. July.
2. Claytonia, *L.*
 Virgínica. *L.* (Spring Beauty.)
 Low grounds. Common. April.

Order 17.—MALVACEÆ. 23.

1. Malva, *L.*
 rotundifòlia, *L.* (Mallows.)
 Gardens and fields; everywhere. May.
 moschata, *L.* (Musk Mallows.)
 Thicket near Jackson's quarries, apparently fully naturalized. July.
 sylvéstris, *L.* (High Mallows.)
 Pastures; escaped from gardens. June.
2. Sida, *L.*
 spinòsa, *L.*
 Cultivated soil. Common. July.
3. Abutilon, *Tourn.*
 Avicénnæ, *Gœrtn.* (Velvet Leaf.)
 Waste places. Common. July.
4. Hibiscus, *L.*
 Moscheùtos, *L.*
 Banks of ditches. Frequent. Aug.
 Syrìacus, *L.* (Althæa.)
 Naturalized about gardens. July.
 Triònum, *L.* (Flower of an hour.)
 Cultivated ground. Common. July.

Order 18.—TILIACEÆ. 24.

1. Tilia, *L.*
 Americàna, *L.* (Linden.)
 Banks of streams; Brandywine. Frequent. June.

ORDER 19.—LINACEÆ. 26.

1. LINUM. *L.*

Virginiànum,[1] *L.* (Wild Flax.)

Woods, &c. Frequent. June.

ORDER 20.—OXALIDACEÆ. 27.

1. OXALIS, *L.*

violàcea, *L.*

Sandy woods. Frequent. May.

stricta, *L.*

Fields and woods. Common. May.

ORDER 21.—GERANIACEÆ. 28.

1. GERANIUM, *L.*

maculàtum, *L.* (Cranesbill.)

Woods, &c. Frequent. May.

Caroliniànum, *L.*

Sterile soil; Tatnall's quarry. Not common. May.

ORDER 22.—BALSAMINACEÆ. 29.

1. IMPATIENS, *L.*

pállida, *Nutt.* (Touch-me-not.)

Moist places; Brandywine. Frequent. July.

fúlva, *Nutt.* (Spotted Snap-weed.)

Moist places. Common. June.

ORDER 23.—LIMNANTHACEÆ. 30.

1. FLŒRKEA, *Willd.*

proserpinacoìdes, *Willd.*

Moist banks; Brandywine. Frequent. April.

ORDER 24.—RUTACEÆ. 31.

1. AILANTHUS, *Desf.*

glandulòsa, *Desf.* (Tree of Heaven.)

Becoming naturalized around dwellings. June.

[1] The cultivated Flax is the Linum usitatissimum.

ORDER 25.—ANACARDIACEÆ. 32.

1. RHUS, *L.*

glàbra, *L.* (Sumach.)

Neglected fence rows, &c. Common. June.

copallìna,[1] *L.* (Dwarf Sumach.)

Dry soil; Iron Hill. Common. July.

venenàta, *DC.* (Poison Sumach.)

Swamps; Thompson's, &c. Frequent. June.

Toxicodéndron, *L.* (Poison Oak.)

Rocky places; lower dam, Brandywine. Frequent. May.

Toxicodéndron, var. radìcans. (Poison Vine.)

Climbing trees and fences. Common. May.

ORDER 26.—VITACEÆ. 33.

1. VITIS, *Tourn.*

Labrúsca,[2] *L.* (Fox Grape.)

Thickets. Common. June.

æstivàlis, *Mx.* (Summer Grape, Raccoon Grape.)

Woods and thickets. Frequent. June.

cordifòlia, *Mx.* (Chicken Grape, Frost Grape.)

Thickets, &c. Common. June.

2. AMPELOPSIS, *Mx.*

quinquefòlia, *Mx.* (American Ivy.)

Moist woods. Frequent. July.

ORDER 27.—RHAMNACEÆ. 34.

1. CEANOTHUS, *L.*

Americànus,[3] *L.* (New Jersey Tea.)

Dry woods. Frequent. June.

ORDER 28.—CELASTRACEÆ. 35.

1. CELASTRUS, *L.*

scándens, *L.* Wax-work.)

Woods, along Brandywine. Frequent. June.

[1] A nearly allied species, native of Japan, furnishes the Copal Varnish.

[2] Many of our cultivated grapes are varieties of this species.

[3] The leaves of this plant were used as a substitute for tea during the Revolutionary war.

2. Euonymus, *Tourn.*

?atropurpùreus, *Jacq.* (Burning bush.)

Near Wistar's Bridge, and probably within our limits, on the Brandywine.

Americànus, *L.* (Strawberry Tree.)

Banks of streams; Brandywine. Frequent. June.

Americànus, var. obovàtus, *T. & G.*

Moist ground; Elliott's Run. Frequent. June.

Order 29.—SAPINDACEÆ. 36.

Sub-Order 1.—STAPHYLEACEÆ.

1. Staphylea, *L.*

trifòlia, *L.* (Bladder-nut.)

Rocky hills, third dam. Frequent. May.

Sub-Order 2.—ACERINEÆ.

2. Acer, *Tourn.*

saccharìnum,[1] *Wang.* (Sugar Maple.)

Rich woods; Rockland. Rare. April.

dascycárpum, *Ehrhart.* (Silver Maple.)

Banks of Brandywine, Love Rock, &c. Rare. March.

rùbrum, *L.* (Maple, Red Maple.)

Low woods. Common. March.

3. Negundo, *Mœnch.*

aceroìdes, *Mœnch.* (Ash-leaved Maple.)

Low grounds along Brandywine. Frequent. April.

Order 30.—POLYGALACEÆ. 37.

1. Polygala, *Tourn.*

sanguínea, *L.* (Not of *T. & G.* P. purpurea, *Nutt.*)

Borders of swamps. Common. July.

incarnàta, *L.*

Dry soil near Newark; R. Kilvington. Rare. July.

[1] Large quantities of Sugar are made from this tree in the Northern and Western States. The wood is much used by cabinet-makers.

(1. Polygala.)

cruciàta, *L.*

Low ground; Hand's, Thompson's. Not common. Aug.

verticillàta, *L.*

Dry banks, &c. Frequent. June.

ambígua, *Nutt.*

Dry fields, &c.; Hand's. Frequent. July.

sénega, *L.* (Seneca Snakeroot.)

Open woods; J. C. Elliott's. Rare. May.

Order 31.—LEGUMINOSÆ. 38.

Sub-Order 1.—PAPILIONACEÆ.

1. Lupinus, *Tourn.*

perénnis, *L.* (Wild Lupine.)

Sandy soil; Andrews'. Frequent. June.

2. Crotalaria, *L.*

sagittàlis, *L.* (Rattle-box.)

Sandy fields; J. Mason's, Red Clay Creek, Fern Hook Farm, &c. Not common. July.

3. Spartium, *L.*

scopàrium, *L.* (Scotch Broom.)

Extensively naturalized on the Canal near St. George's, where it was originally planted to strengthen the bank; C. Murgatroyd. June.

4. Trifolium, *L.*

arvénse, *L.* (Rabbit-foot Clover.)

Old fields. Common. June.

praténse, *L.* (Red Clover.)

Cultivated fields. Commonly naturalized. May.

rèpens, *L.* (White Clover.)

Meadows and pastures. Common. May.

agràrium, *L.* (Yellow Clover.)

Sterile banks, roadsides, &c. Rather rare. June.

procúmbens, *L.*

Sandy roadsides. Common. May.

5. Melilotus, *Tourn.*

officinàlis, *Willd.* (Yellow Melilot.)

Cultivated lots, near Wilmington. Not common. June.

(5. MELILOTUS.)

álba, *Lam.* (White Melilot.)

Waste grounds, old Barley Mill. Not common. June.

6. MEDICAGO, *L.*

lupulìna, *L.* (None-such.)

Pastures, &c.; J. Tatnall's. Not common. June.

maculàta, *Willd.* (Spotted Medick.)

Fields, &c. along Brandywine, Scarce. June.

7. ROBINIA, *L.*

Pseudacàcia,[1] *L.* (Locust.)

Old fields and fence rows. Common. May.

8. TEPHROSIA, *Pers.*

Virginiàna, *Pers.* (Goat's-rue.)

Sandy soil along Brandywine. Frequent. June.

9. ÆSCHYNOMENE, *L.*

hìspida, *Willd.*

Muddy shores; Cherry Island. Frequent. Aug.

10. DESMODIUM, *DC.*

nudiflòrum, *DC.*

Hillsides along Brandywine. Common. July.

acuminàtum, *DC.*

Rich woods. Common. July.

rotundifòlium, *DC.*

Rocky woods. Frequent. Aug.

canéscens, *DC.* (Stick-seed.)

Sandy soil. Frequent. Aug.

cuspidàtum, *T. & G.*

Low thickets along Brandywine. Frequent. Aug.

lævígatum, *DC.*

Dry woods below Auburn Factory. Not common. Aug.

viridiflòrum, *Beck.*

Woods, &c. Frequent. Aug.

Dillènii, *Darlingt.*

Woods. Frequent. Aug.

[1] The wood of this tree is very hard and durable, and but little subject to hygròmetric influences.

(10. Desmodium.)

paniculàtum, *DC.*

Thickets. Common. Aug.

cilìare, *DC.*

Old fields, &c. Frequent. Aug.

rígidum, *DC.*

Dry woods. Frequent. Aug.

Marilándicum, *Boott.*

Dry hillsides. Frequent. Aug.

11. Lespedeza, *Michx.*

procúmbens, *Michx.*

Dry sterile woods; Brandywine. Frequent. Aug.

rèpens, *T. & G.*

Dry sandy banks; Brandywine. Not common. Aug.

violàcea, *Pers.* (Bush Clover.)

Borders of woods. Frequent. Aug.

violàcea, var. divérgens, *T. & G.*

Sandy soil; Brandywine. Common. Aug.

violàcea, var. sessiliflòra, *T. & G.*

Borders of woods; Brandywine. Common. Aug.

violàcea, var. angustifòlia, *T. & G.*

Sterile fields and clearings; Hand's. Frequent. Aug.

Stùvei, *Nutt.*

Hilly woodland; Brandywine. Frequent. Aug.

hírta, *Ell.*

Clearings, in heavy soil; Hand's, &c. Frequent. Aug.

capitàta, *Michx.*

Dry sandy soil; Hand's, &c. Frequent. Aug.

12? Scorpiurus, *L.*

muricàtus, *Willd.*

Detected by Z. Ferris, Jr. in 1843, on the S. side of Christiana Creek, near Wilmington.

13. Stylosanthes, *Swartz.*

elàtior, *Swartz.* (Pencil Flower.)

Dry banks. Common. July.

14. Vicia, *Tourn.*

sativa, *L.* (Common Vetch or Tare.)

Bellah's quarry. Not common. July.

tetraspérma, *L.*

Open woods; Col. Davis'. Frequent. June.

(14. VICIA.)

hirsùta, *Koch.*

Near Wilmington; Dr. Michener. June.

15. PHASEOLUS, *L.*

perénnis, *Walt.* (Wild Bean.)

Rocky hills; Allapokas. Frequent. Aug.

hélvolus, *L.*

Sandy woods; third dam. Frequent. Aug.

?diversifòlius, *Pers.*

Grows in Kent Co., along salt marshes. Aug.

16. APIOS, *Boerh.*

tuberòsa, *Mœnch.* (Groundnut.)

Moist thickets. Frequent. Aug.

17. GALACTIA, *P. Browne.*

móllis, *Michx.* (Milk Pea.)

Sterile hillsides; Brandywine. Frequent. July.

18. AMPHICARPÆA, *Ell.*

monoìca, *Nutt.* (Hog Peanut.)

Woods and thickets. Frequent. Aug.

19. CLITORIA, *L.*

Mariàna, *L.* (Butterfly Pea.)

Rocky hills; Rocky Ridge, Allapokas. Frequent. July.

20. BAPTISIA, *Vent.*

tinctòria, *R. Br.* (Wild Indigo.)

Dry woods. Common. June.

SUB-ORDER 2.—CÆSALPINIÆ.

21. CASSIA, *L.*

Marilándica,[1] *L.* (Wild Senna.)

Sandy soil along streams. Common. Aug.

Chamæcrísta, *L.* (Partridge Pea.)

Light soil; Andrews' Woods. Not common. July.

nictitans, *L.*

Sandy roadsides. Common. Aug.

22. GLEDITSCHIA, *L.*

triacánthos, *L.* (Honey Locust.)

Becoming naturalized about lawns, &c. July.

[1] A good substitute for the senna of the shops.

ORDER 32.—ROSACEÆ. 39.

SUB-ORDER 1.—AMYGDALEÆ.

1. PRUNUS, L.

Americàna, *Marsh.* (Red Plum.)
Banks of streams. Frequent. May.

marítima, *Wang.*
Sandy soil near St. Ann's Church; A. H. Harvey. Frequent. April.

Sub-Genus PADUS, *Mill.* (CERASUS, *Tourn.*)

P. serotìna, *Ehrhart.* (Wild Cherry.)
(Cerasus Virginiana, *Mx.*)
Open woods and fencerows. Frequent. May.

SUB-ORDER 2.—ROSACEÆ.

2. SPIRÆA, *L.*

opulifòlia, *L.* (Nine Bark.)
Banks of streams; Brandywine Bridge. Frequent. June.

salicifòlia, *L.* (Meadowsweet.)
Wet meadows; Christiana, and above Rockland. Rare. July.

tomentòsa, *L.* (Hardhack.)
Borders of swamps; Hand's, Thomson's. Frequent. July.

3. GILLENIA, *Mœnch.*

trifoliàta, *Mœnch.* (Bowman's Root.)
Woodlands; near Bancroft's Mill, and along Naaman's Creek, &c. Rare. July.

4. AGRIMONIA, *Tourn.*

Eupatòria, *L.* (Agrimony.)
Borders of woods. Frequent. July.

parviflòra, *Ait.*
Thickets, &c.; Lovering's, Rattlesnake run. Rare. July.

5. SANGUISORBA, *L.*

Canadénsis, *L.* (Burnet.)
Swamps; Thompson's, Hand's, McCrone's. Common. Aug.

6. GEUM, *L.*

álbum, *Gmelin.* (White Avens.)
Open woods. Frequent. June.

Virginiànum, *L.*
Low open woods. Common. June.

7. POTENTILLA, *L.*

Norvègica, *L.*
Fields, &c. Frequent. July.

Canadénsis, *L.* (Cinquefoil. Fivefinger.)
Old fields. Common. April. (Mucilaginous.)

8. FRAGARIA, *Tourn.*

Virginiàna, *Ehrhart.* (Strawberry.)
Neglected old fields. Frequent. April.

9. RUBUS, *L.*

odoràtus, *L.* (Purple-flowered Raspberry.)
Rocky hills; above Bancroft's mill. Rare. June.

occidentàlis, *L.* (Wild Raspberry.)
Fencerows, &c. Frequent. May.

villòsus, *Ait.* (Blackberry.)
Old fields, thickets, &c. Common. May.

Canadénsis, *L.* (Dewberry.)
Rocky, sterile fields. Frequent. May.

híspidus, *L.* (Swamp Blackberry.)
Sphagnous swamps; Thompson's, &c. Frequent. June.

cuneifòlius, *Pursh.*
Dry sandy soil; Appoquinimink Hd. May.

10. ROSA, *Tourn.*

Carolìna, *L.* (Swamp Rose.)
Moist thickets. Frequent. June.

lùcida, *Ehrh.* (Dwarf Wild Rose.)
Borders of ditches; Cherry Island. Common. June.

rubiginòsa, *L.* (Sweetbrier.)
Naturalized about gardens, &c. June.

SUB-ORDER 3.—POMEÆ.

11. CRATÆGUS, *L.*

cordàta,[1] *Ait.* (Washington Thorn.)
Roadsides, &c. Frequent. June.

[1] This and C. crus-galli have been extensively used for hedging.

(11. CRATÆGUS.)

oxycántha, *L.* (English Hawthorn.)
Roadsides, &c.; Brindley's. Not common. May.

coccínea, *L.* (White Thorn. Scarlet-fruited Thorn.)
Borders of woods. Frequent. May.

tomentòsa, *L.*, var. punctata, *Gr.* (Black Thorn.)
Borders of thickets. Not common. May.

crus-galli, *L.* (Cockspur Thorn.)
Hedges, &c. Common. May.

flàva? *Ait.*
Serpentine fields; Brown's. Rare.

12. PYRUS, *L.*

coronària, *L.* (Crab-Apple.)
Thickets, &c.; Stanton. Frequent. May.

Màlus, *L.* (Apple Tree.)
Spontaneous in neglected fields, &c. May.

commùnis, *L.* (Pear Tree.)
Spontaneous along fencerows, &c. May.

arbutifòlia, *L.* (Chokeberry.)
Borders of swamps; Thompson's. Frequent. May.

13. AMELANCHIER, *Medic.* (Shad-bush, Service-berry.)

Canadénsis, *T. & G.*, var. botrypàium, *Gr.*
Moist woods. Frequent. April.

ORDER 33.—MELASTOMACEÆ. 41.

1. RHEXIA, *L.*

Virgínica, *L.* (Deer Grass.)
Swampy places. Frequent. July.

Mariàna, *L.*
Swamps; Thompson's. Rare. Aug.

ORDER 34.—LYTHRACEÆ. 42.

1. AMMANNIA. *Houston.*

hùmilis, *Michx.*
Muddy banks; Barley-mill dam, &c. Frequent. July.

2. NESÆA, *Commerson.* (Decodon, *Gmelin.*)

verticillàta, *H. B. K.*
Swamps; Deringer's, Hand's. Frequent. July.

3. Cuphea, *Jacq.*
 viscosíssima, *Jacq.*
 Fields and meadows; Cemetery, Canby's, &c. Frequent. Aug.

Order 35.—ONAGRACEÆ. 43.

Sub-Order 1.—ONAGRACEÆ. (Proper.)

1. Epilobium, *L.*
 palústre, *L.*, var. lineare, *Gr.*
 Wet meadows; Hand's, &c. Frequent. Aug.
 coloràtum, *Muhl.*
 Swamps; Thompson's, &c. Frequent. July.
2. Œnothera, *L.*
 biénnis, *L.* (Evening Primrose.)
 Fence rows, &c. Frequent. June.
 fruticòsa, *L.* (Sundrops.)
 Dry hills, &c.; Brandywine. Frequent. June.
3. Ludwigia, *L.*
 alternifòlia, *L.* (Seed-box.)
 Along rivulets, &c. Frequent. July.
 palústris, *Ell.* (Water Purslane.)
 Springs and ditches. Common. July.
4. Circæa, *Tourn.*
 Lutetiàna, *L.* (Enchanter's Nightshade.)
 Moist woods. Common. July.

Sub-Order 2.—HALORAGEÆ.

5. Proserpinaca, *L.*
 palústris, *L.* (Mermaid-weed.)
 Stagnant water; Andrews'. Rare. June.
6. Myriophyllum, *Vaill.*
 verticillàtum, *L.* (Water Milfoil.)
 Ditches near Wilmington; Dr. Michener. July.
 scabràtum, *Michx.*
 Borders of ditches; Delaware City. Rare. June.

Order 36.—GROSSULACEÆ. 46.

1. Ribes, *L.*
 flòridum, *L.* (Wild Black Currant.)
 Dry banks; near Riddle's. Not common. May.

ORDER 37.—CUCURBITACEÆ. 48.

1. SICYOS, *L.*
 augulàtus, *L.* (Single-seeded Cucumber.)
 River banks and waste places. Frequent. July.

ORDER 38.—CRASSULACEÆ. 49.

1. PENTHORUM, *Gronov.*
 sedoìdes, *L.*
 Wet places. Frequent. July.

ORDER 39.—SAXIFRAGACEÆ. 50.

SUB-ORDER 1.—SAXIFRAGEÆ.

1. SAXIFRAGA, *L.*
 Virginiénsis, *Michx.* (Early Saxifrage.)
 Exposed rocks; Brandywine. Frequent. April.
 Pennsylvánica, *L.* (Swamp Saxifrage.)
 Swamps; Thompson's. Frequent. May.
2. HEUCHERA, *L.*
 Americàna, *L.* (Alum-root.)
 Rocky woods. Frequent. May.
3. MITELLA, *Tourn.*
 diphýlla, *L.* (Mitrewort.)
 Rich rocky hillsides; Bancroft's. Frequent. April.
4. CHRYSOSPLENIUM, *Tourn.*
 Americànum, *Schw.* (Water Carpet.)
 Shaded springs and rivulets. Frequent. April.

SUB-ORDER 2.—ESCALLONIEÆ.

5. ITEA, *L.*
 Virgínica, *L.*
 Wet places; Thompson's. Rare. June.

ORDER 40.—HAMAMELACEÆ. 51.

1. HAMAMELIS, *L.*
 Virgínica, *L.* (Witch Hazel.)
 Moist woods, &c. Frequent. Oct.
2. LIQUIDAMBAR, *L.*
 Styracíflua, *L.* (Sweet Gum.)
 Moist woods; Brandywine. Frequent. April.

ORDER 41.—UMBELLIFERÆ. 52.

1. HYDROCOTYLE, *Tourn.*
 Americàna, *L.* (Marsh Pennywort.)
 Shaded wet places. Frequent. July.
 ranunculoìdes, *L.*
 Ditches; St. George's. Frequent. July.
 umbellàta, *L.*
 Swamps; Thompson's, Ogletown. Frequent. June.
2. SANICULA, *Tourn.*
 Canadénsis, *L.* (Sanicle.)
 Woods and copses. Frequent. June.
 Marilándica, *L.*
 Rich woods. Common. July.
3. ERYNGIUM, *Tourn.*
 Virginiànum, *Lam.* (Button Snakeroot.)
 Swamps; Thompson's. Not common. July.
4. DAUCUS, *Tourn.*
 Caròta, *L.* (Carrot.)
 So common in fields as to be a great nuisance. July.
5. HERACLEUM, *L.*
 lanàtum, *Michx.* (Cow Parsnip.)
 Rich low grounds. Frequent. May.
6. PASTINACA, *Tourn.*
 satìva, *L.* (Parsnip.)
 Waste places, along fencerows. Common. June.
7. ARCHEMORA, *DC.*
 rígida, *DC.* (Cowbane.)
 Swampy places. Common. Aug.
8. ARCHANGELICA, *Hoffm.*
 hírsuta, *T. & G.*
 Borders of woods, &c. Frequent. July.
 atropurpùrea, *Hoffm.*
 Low grounds along streams. Frequent. May.
9. THASPIUM, *Nutt.*
 barbinòde, *Nutt.* (Meadow Parsnip.)
 Sandy meadows, &c.; Brandywine. Frequent. June.
 aùreum, *Nutt.*
 Borders of woods; Brandywine. Not common. May.

(9. Thaspium.)

trifoliàtum, *Gr.*, var. atropurpureum, *T. & G.*

Dry woods; Brandywine. Not common. June.

10. Discopleura, *DC.*

capillàcea, *DC.* (Mock Bishop-weed.)

Swamps and low places. Frequent. July.

11. Cicuta, *L.*

maculàta, *L.* (Water Hemlock.)

Wet places; ditch banks. Frequent. July.

12. Sium, *L.*

lineàre, *Mx.*

Alluvial meadows; Wilmington; Dr. Michener. July.

13. Cryptotænia, *DC.*

Canadénsis, *DC.* (Honewort.)

Rich woods. Common. June.

14. Chærophyllum, *L.*

procúmbens, *Lam.* (Chervil.)

Moist rich woods; Brandywine. Frequent. April.

15. Osmorrhiza, *Raf.*

longístylis, *DC.* (Sweet Cicely.)

Rich moist woods; Brandywine. Not common. May.

brevístylis, *DC.*

Rich moist woods; Red Clay Creek. Rare. May.

16. Conium, *L.*

maculàtum, *L.* (Poison Hemlock.)

Waste places. Rare. June.

Order 42.—ARALIACEÆ. 53.

1. Aralia, *Tourn.* (Panax partly.)

spinòsa, *L.* (Hercules' Club.)

Roadsides; near J. Shipley's, &c. Not common. July.

racemòsa, *L.* (Spikenard.)

Wooded rocky hillsides; Wills' Rock, &c. Frequent. July.

nudicaúlis, *L.* (Sarsaparilla.)

Rich rocky woods, hillsides. Common. May.

(1. Aralia.)

quinquefòlia, *Gray.* (Ginseng.)
(Panax quinquefolium, *L.*)
Rich woods; Brandywine. Not common. July.

trifòlia, *Gray.* (Dwarf Ginseng.)
(Panax trifolium, *L.*)
Banks of shaded rivulets; Elliott's Run. Frequent. April.

Order 43.—CORNACEÆ. 54.

1. Cornus, *Tourn.*

flórida, *L.* (Dogwood.)
Rocky woods. Common. May.

serícea, *L.* (Red Rod.)
Banks of streams in wet places. Frequent. June.

paniculàta, *L'Her.* (White Dogwood.)
Thickets, &c. Frequent. June.

alternifòlia, *L.*
Thickets; Brandywine. Frequent. May.

2. Nyssa, *L.*

multiflòra, *Wang.* (Black Gum. Sour Gum.)
Low moist woods. Frequent. April.

Division 2.—MONOPETALOUS EXOGENS.

Order 44.—CAPRIFOLIACEÆ. 55.

1. Lonicera, *L.*

sempérvirens, *Ait.* (Trumpet Honeysuckle.)
Banks of streams; Brandywine. Frequent. May.

2. Diervilla, *Tourn.*

trífida, *Mœnch.* (Bush Honeysuckle.)
Dry banks; J. Lovering's. Rare. June.

3. Triosteum, *L.*

perfoliàtum, *L.* (Horse Gentian. Wild Coffee.)
Sandy place near Brandywine bridge, &c. Not rare. May.

angustifòlium, *L.*
Giant's Cave; Bowman's Run; Col. Davis'. Rare. May.

4. Sambucus, *Tourn.*

Canadénsis, *L.* (Elder.)
Fencerows and meadows; Cherry Island, &c. Common. June.

5. Viburnum, *L.*

nùdum, *L.* (Withe-rod.)
Swamps; Thompson's. Frequent. May.

prunifòlium, *L.* (Black Haw.)
Dry thickets. Frequent. May. Fruit edible.

Lentàgo? *L.* (Sheep Berry.)
Borders of swamps; Thompson's. Rare. May.

dentàtum, *L.* (Arrow-wood.)
Wet places. Frequent. June.

acerifòlium, *L.* (Maple-leaved arrow-wood.)
Rocky wooded hills. Frequent. May.

Order 45.—RUBIACEÆ. 56.

1. Galium, *L.*

Aparìne, *L.* (Goose Grass.)
Shaded moist places. Frequent. May.

aspréllum, *Michx.* (Rough Bedstraw.)
Low thickets. Frequent. July.

trífidum, *L.* (Small Bedstraw.)
Swamps and wet places. Frequent. June.

trífidum var. tinctòrium, *Gr.*
Wet places along Brandywine. Frequent. June.

triflòrum, *Mx.* (Sweet-scented Bedstraw.)
Moist woods; Brandywine, &c. Frequent. July.

pilòsum, *Ait.*
Dry woods and thickets. Frequent. June.

circæzans, *Mx.* (Wild Liquorice.)
Rich woods. Frequent. June.

(1. GALIAM.)
lanceolàtum, *Torr.*
Moist woodlands. Frequent. July.

2. DIODIA, *L*
tères, *Walt.* (Button-weed.)
Sandy roadsides. Common. Aug.

3. CEPHALANTHUS, *L.*
occidentàlis, *L.* (Button Bush.)
Banks of streams and ponds. Frequent. July.

4. MITCHELLA, *L.*
rèpens, *L.* (Partridgeberry.)
Woods about roots of trees. Frequent. June.

5. OLDENLANDIA, *Plum.* (Houstonia, *L.* Hedyotis, *Hook.*)
cœrùlea, *Gray.* (Bluets, Innocence.)
Grassy banks of rivulets. Common. April.

ORDER 46.—DIPSACEÆ. 58.

1. DIPSACUS, *Tourn.*
sylvéstris, *Mill.*
Roadsides and waste places; Dupont's. Rather rare. July.

ORDER 47.—COMPOSITÆ. 59.

SUB-ORDER 1.—TUBULIFLORA.

1. VERNONIA, *Schreb.*
Noveboracénsis, *Willd.* (Iron-weed.)
Wet meadows. Common. Aug.

2. ELEPHANTOPUS, *L.*
Caroliniànus, *Willd.* (Elephant's Foot.)
Sandy woods; Brandywine. Frequent. July.

3. LIATRIS, *Schreb.*
spicàta, *Willd.* (Blue Blazing Star.)
Open woods; clearings. Frequent. Aug.
scariòsa, *Willd.*
Dry banks; Fulton's Mill. Rare. Aug.

4. EUPATORIUM, *Tourn.*
purpùreum, *L.*
Wet meadows; banks of rivulets. Frequent. Aug.

(4. EUPATORIUM.)

álbum, *L.*

Sandy places near Newark; Kilvington. Rare. Aug.

teucrifòlium, *Willd.*

Swampy ground; Thompson's, Hands, &c. Frequent. Aug.

rotundifòlium, *L.*

Margin of swamps; Thompson's, &c. Frequent. Aug.

pubéscens, *Muhl.*

With the last; Stanton, Dr. Michener. Rare. Aug.

sessilifòlium, *L.*

Open woods and hillsides; Brandywine. Frequent. Aug.

perfoliàtum, *L.* (Thorough-stem Boneset.)

Wet grounds. Common. July.

ageratoìdes, *L.*

Moist woods, &c. Frequent. Aug.

aromáticum, *L.*

Borders of swamps; Thompson's. Not common. Aug.

5. MIKANIA, *Willd.*

scándens, *Willd.* (Climbing Hempweed.)

Wet places along Brandywine. Frequent. Aug.

6. CONOCLINIUM, *DC.*

cœlestìnum, *DC.* (Blue Air. Mist Flower.)

Rich open woods; Red Clay Creek; McMinn. Rare. Aug.

7. SERICOCARPUS, *Nees.*

solidagíneus, *Nees.*

Moist woodlands. Frequent. Aug.

conyzoìdes, *Nees.*

Dry open woods and clearings. Frequent. July.

8. ASTER, *L.* (Starwort.)

corymbòsus, *Ait.*

Open woodlands. Common. July.

macrophýllus, *L.*

Moist woods, &c. Common. Aug.

Rádula, *Ait.*

Borders of swamps; Thompson's. Rare. July.

(8. Aster.)

pàtens, *Ait.*

Dry woods, &c.; Dixon's. Frequent. Aug.

pàtens var. phlogifòlius, *Gr.*

Woods; Brandywine. Frequent. Aug.

lævis, *L.* (Smooth Aster.)

Borders of thickets; Lovering's. Frequent. Aug.

undulàtus, *L.*

Dry open woods. Common. Sept.

sagittifòlius, *Willd.*

Dry woods along Brandywine. Frequent. Aug.

cordifòlius, L.

Woodlands. Frequent. Aug.

ericoìdes, *L.*

Old fields and roadsides. Very common. Aug.

multiflòrus, *Ait.*

Dry gravelly soil; Andrews'. Frequent. Aug.

dumòsus, *L.* var. vèrus, *T. & G.*

Thickets, &c.; Andrews'. Frequent. Aug.

Tradescánti? *L.*

Borders of swamps; Thompson's. Frequent. Aug.—Oct.

mìser, *L.*

Old fields, thickets, &c. Common. Aug.

mìser, *L.*, var. diffùsus, *T. & Gr.*

Gravelly soil; Andrews'. Frequent. Aug.

símplex, *Willd.*

Shady wet places; Rodgers', &c. Frequent. Sept.

tenuifòlius, *L.*, var. glomerellus.

Margins of swamps; Thompson's. Frequent. Oct.

cárneus, *Nees.*

Gravelly swamps; Ogletown. Not common. Sept.

cárneus, *Nees.*, var. subásper, *T. & G.*

Swamps; Thompson's. Frequent. Oct.

puníceus, *L.*

Wet shaded places; Brandywine. Common. Sept.

prenanthoìdes, *Muhl.*

Borders of moist woods; Brandywine. Frequent. Sept.

(8. Aster.)

? linifòlius, *L.*

Found in Kent Co. by Dr. Michener: to be sought in Appoquinimink Hundred, near the Bay.

9. Erigeron, *L.*

Canadénse, *L.* (Butter-weed.)

Old fields and roadsides. Very common. July.

bellidifòlium, *Muhl.* (Robin's Plantain.)

Moist open woods; Brandywine. Frequent. May.

Philadélphicum, *L.*

Open woodlands along Brandywine. Frequent. June.

ánnuum, *Pers.* (Fleabane Daisy.)

Fields and waste places. Common. June.

strigòsum, *Muhl.* (Butter-weed.)

Fields. Very common. June.

10. Diplopappus, *Cass.*

linariifòlius, *Hook.*

Dry banks and rocky woods. Common. Sept.

umbellàtus, *T. & G.*

Moist thickets; Stanton. Frequent. Aug.

cornifòlius, *Darln.*

Borders of thickets; Hand's. Not common. July.

11. Solidago, *L.* (Golden Rod.)

bícolor, *L.*

Dry shaded banks. Frequent. Aug.

latifòlia, *L.*

Rich shaded ground; Brandywine. Frequent. Sept.

cáesia, *L.* (Golden Rod.)

Rich woodlands. Common. Sept.

sempérvirens, *L.*

Muddy shores of Delaware River. Not common. Sept.

neglécta? *T. & G.*

Swamps; Thompson's, P. Clark's, &c. Frequent. Sept.

pátula, *Muhl.*

Swamps, near Christiana. Not common. Sept.

argùta, *Ait.*

Margins of swamps; Thompson's, &c. Frequent. Aug.

(11. Solidago.)

Muhlenbérgii, *T. & G.*

Shaded banks; Bellah's. Frequent. Aug.—Sept.

altíssima, *L.*

Borders of thickets, &c.; Brandywine. Frequent. Sept.

ulmifòlia, *Muhl.*

Low grounds; thickets. Frequent. Sept.

odòra, *Ait.* (Fragrant Solidago.)

Sandy open woods. Frequent. Aug.

nemoràlis, *Ait.*

Dry sterile fields. Very common. Aug.

Canadénsis, *L.*

Borders of thickets, fields, &c. Frequent. Aug.

serótina, *Ait.*

Low ground near Christiana. Frequent. Sept.

gigántea, *Ait.*

Thickets and fencerows. Common. Aug.

lanceolàta, *L.*

Moist low grounds. Common. Aug.

12. Chrysopsis, *Nutt.*

Mariana, *Nutt.*

Dry banks; Brandywine. Frequent. Aug.

13. Inula, *L.*

Helènium, *L.* (Elecampane.)

Roadsides; escaped from cultivation. July.

14. Pluchea, *Cass.*

camphoràta, *DC.* (Marsh Fleabane.)

Marshes near Collins' Beach. Rare. Aug.

15. Baccharis, *L.*

halimifòlia, *L.* (Groundsel Tree.)

Sandy soil; Giant's Cave; Iron Hill. Rare. Frequent at Collins' Beach. Sept.

16. Polymnia, *L.*

Uvedàlia, *L.*

Rich woods; Brandywine, Red Clay Creek, &c. Frequent. Aug.

17. Iva, *L.*

frutéscens, *L.*

Sandy soil; Collins' Beach. Frequent. Rare elsewhere. Aug.

18. AMBROSIA, *Tourn.*

trífida, *L.*

Moist places along Brandywine and elsewhere. Frequent. Aug.

artemisiæfòlia, *L.* (Bitter-weed. Rag-weed.)

Stubble-fields, pastures, and waste places. Common. Aug.

19. XANTHIUM, *Tourn.*

strumarium, *L.* (Cockle-bur.)

Barnyards and waste places. Common. Aug.

spinòsum, *L.* (Thorny Clotweed.)

Streets of Wilmington, New Castle, &c. Frequent. Sept.

20. ECLIPTA, *L.*

procúmbens, *Michx.*

Wet banks of race near Tatnall & Lea's Mill. Rare. Aug.

21. HELIOPSIS, *Pers.*

lævis, *Pers.* (False Sunflower.)

Low grounds along Brandywine and elsewhere. Frequent. July.

22. RUDBECKIA, *L.*

laciniàta, *L.* (Cone Flower.)

Low grounds; Brandywine, &c. Frequent. July.

fúlgida, *Ait.*

Old fields N. of C. Howland's and elsewhere. Frequent. Aug.

hírta, *L.*

Fields, &c.; Dixon's. Not common. July.

23. HELIANTHUS, *L.*

gigánteus, *L.* (Wild Sunflower.)

Borders of thickets and swamps; Hand's and elsewhere. Common. Aug.

strumòsus, *L.*

Banks of streams and borders of thickets. Frequent. Aug.

divaricatus, *L.*

Dry hillsides above Allapokas Creek, and frequent elsewhere. July.

(23. HELIANTHUS.)

tracheliifòlius? *Willd.*

Borders of thickets; Brandywine. Not common. Aug.

decapétalus, *L.*

Banks of streams; Brandywine, &c. Frequent. Aug.

tuberòsus, *L.* (Jerusalem Artichoke.)

Naturalized in many places; Thompson's, &c. Sept.

ánnuus, *L.* (Sunflower.)

Is frequently spontaneous about gardens and houses. July.

24. ACTINOMERIS, *Nutt.*

squarròsa, *Nutt.*

Low grounds along Brandywine. Rather rare. Sept.

helianthoìdes, *Nutt.*

Has been found by Dr. Michener near Christiana village. July.

25. COREOPSIS, *L.*

trichospérma, *Michx.* (Tickseed Sunflower.)

Swamps; Thompson's, McCrone's, Ogletown, &c. Frequent. Sept.

26. BIDENS, *L.*

frondòsa, *L.* (Bur Marigold.)

Gardens and fields. Common. July.

connàta, *Muhl.*

Wet grounds; along rivulets, &c. Frequent. Sept.

chrysanthemoìdes, *Michx.* (Beggar-ticks.)

Along runs and ditches. Common. Aug.

bipinnàta, *L.* (Spanish Needles.)

Gardens and fields. Common. Aug.

27. HELENIUM, *L.*

autumnàle, *L.* (Sneeze-weed.)

Banks of streams; Brandywine, &c. Frequent. Sept.

28. MARUTA, *Cass.*

Cótula, *DC.* (May-weed.)

Yards and roadsides. Common. June.

29. ANTHEMIS, *L.*

arvénsis, *L.* (Wild Chamomile.)

Cultivated grounds. Frequent. June.

(29. ANTHEMIS.)

nóbilis, *L.* (Garden Chamomile.)

Is said to be naturalized in some parts of the county. July.

30. ACHILLEA, *L.*

Millefòlium, *L.* (Yarrow. Milfoil.)

Fields and pastures. Common. Aug.

31. LEUCANTHEMUM, *Tourn.*

vulgàre, *Lam.* (Daisy. Ox-eye Daisy.)

So abundant as to have become a great nuisance on most farms. June.

32. TANACETUM, *L.*

vulgàre, *L.* (Tansy.)

Roadsides near gardens. Frequent. July.

33. GNAPHALIUM, *L.*

polycéphalum, *Michx.* (Everlasting.)

Old fields. Common. Aug.

uliginòsum, *L.* (Cudweed.)

Low grounds; Cherry Island. Common. July.

purpùreum, *L.*

Dry open woods. Frequent. July.

34. ANTENNARIA, *Gærtn.*

margaritàcea, *R. Br.*

Dry hills north of Wilmington. Rare. Aug.

plantaginifòlia, *Hook.*

Sterile banks. Frequent. April.

35. FILAGO, *Tourn.*

Germánica, *L.*

Dry fields and roadsides. Frequent. July.

36. ERECHTHITES, *Raf.*

hieracifòlia, *Raf.* (Fire-weed.)

In recent clearings where brush, &c. has been burned. Common. July.

37. CACALIA, *L.*

atriplicifòlia, *L.* (Indian Plantain.)

Sandy woods along Brandywine, &c. Frequent. July.

38. SENECIO, *L.*

aùreus, *L.* (Ragwort. Squaw-weed.)

Moist ground along streams. Frequent. May.

(38. Senecio.)

aùreus, var. obovàtus, *T. & G.*

Dry banks along Brandywine. Frequent. May.

aùreus, var. Balsámitæ, *T. & G.*

Serpentine banks; Dixon's. Rare elsewhere. June.

38*. Arnica, *L.*

nudicaulis, *Ell.*

Dry thickets; Townsend. Rare. June, 1860.

39. Centaurea, *L.*

Cỳanus, *L.* (Blue Bonnets. Ragged Robin.)

Escaped from gardens; Brandywine, &c. July.

40. Cnicus, *Vaill.*

benedíctus, *L.* (Blessed Thistle.)

Almost naturalized near gardens, &c. July.

41. Cirsium, *Tourn.*

lanceolàtum, *Scop.* (Thistle.)

Pastures and roadsides. Common everywhere. June.

díscolor, *Spreng.*

Old fields and copses. Frequent. Aug.

altíssimum, *Spreng.*

Moist thickets, &c. Frequent. Aug.

mùticum, *Michx.* (Swamp Thistle.)

Swamps; Thompson's and elsewhere. Frequent. Aug.

pùmilum, *Spreng.*

Low grounds in old fields, &c. Not common. July.

horrídulum, *Michx.* (Yellow Thistle.)

Sandy places along Brandywine. Rare. July.

arvénse, *Scop.* (Canada Thistle.)

Vacant lots in Wilmington. Common. July.

42. Lappa, *Tourn.*

màjor, *Gærtn.* (Burdock.)

Waste places. Common. July.

Sub-Order 2.—LIGULIFLORÆ.

43. Cichorium,[1] *Tourn.*

Intỳbus, *L.* (Cichory. Chicory.)

Found by W. M. Canby near Green Hill Church. Aug.

[1] Blanched leaves sometimes used as a salad, and the root for adulterating coffee.

44. KRIGIA, *Schreb.*

Virgínica, *Willd.* (Dwarf Dandelion.)

Dry sandy soil. Frequent. May.

45. CYNTHIA, *Don.*

Virgínica, *Don.*

Moist places along Brandywine. Not common. June.

46. HIERACIUM, *Tourn.*

scàbrum, *Michx.* (Rough Hawkweed.)

Woods; Brandywine and elsewhere. Frequent. Aug.

Gronòvii, *L.* (Hairy Hawkweed.)

Dry open woods; Brandywine, &c. Frequent. Aug.

venòsum, *L.* (Rattlesnake-weed.)

Woods and clearings. Frequent. June.

paniculàtum, *L.*

Woods and sandy meadows. Frequent. Aug.

47. NABALUS, *Cass.*

álbus, *Hook.* (Lion's Foot. Rattlesnake-root.)

Clearings and thickets. Frequent. Aug.

altíssimus, *Hook.*

Rich moist woods; Brandywine. Frequent. Aug.

Frasèri, *DC.* (Gall of the Earth.)

Sterile soil; Brandywine (Stanton, Dr. Michener). Frequent. Sept.—Oct.

48. TARAXACUM, *Haller.*

Dens-leònis,[1] *Desf.* (Dandelion.)

Pastures, &c., everywhere. April.

49. LACTUCA,[2] *Tourn.*

elongata, *Muhl.* (Wild Lettuce.)

Rich soil; fencerows, &c. Frequent. July.

50. MULGEDIUM, *Cass.*

acuminàtum, *DC.*

Woods and thickets. Frequent. Aug.

[1] Miss Morris, of Germantown, has noticed that after flowering, the head lies flat on the ground until the fruit has matured, when it again becomes erect.

[2] All varieties of garden lettuce are of this genus.

(50. MULGEDIUM.)

Floridànum, *DC.*

Borders of thickets; Hand's, Dixon's. Not common. Aug.

leucophæum, *DC.*

Fencerows, thickets, &c. Frequent. Aug.

51. SONCHUS, *L.*

oleràceus, *L.* (Sow Thistle.)

Gardens and waste places. Frequent. Aug.

ásper, *Vill.* (Spiny Sow Thistle.)

Roadsides and waste places. Frequent. Aug.

ORDER 48.—LOBELIACEÆ. 60.

1. LOBELIA, *L.*

cardinàlis, *L.* (Cardinal Flower.)

Low grounds. Frequent. July.

syphilítica, *L.* (Blue Lobelia.)

Low grounds. Frequent. Aug.

pubérula, *Michx.*

Wet grounds. Frequent. Aug.

inflàta,[1] *L.* (Indian Tobacco.)

Dry fields and roadsides. Frequent. July.

spicàta, *Lam.*

Dry fields and open woods. Frequent. Aug.

Nuttállii, *R. & S.*, and L. paludosa, *Nutt.*

Probably grow in the lower part of the county.

ORDER 49.—CAMPANULACEÆ. 61.

1. CAMPANULA, *Tourn.*

aparinoìdes, *Pursh.* (Marsh Bellflower.)

Swamps and wet meadows. Frequent. July.

2. SPECULARIA, *Heist.*

perfoliàta, *Alph. DC.*

Dry hills and sterile fields. Frequent. May.

[1] A powerful emetic and sedative, much used in the Thompsonian medical practice.

ORDER 50.—ERICACEÆ. 62.

SUB-ORDER 1.—VACCINEÆ.

1. GAYLUSSACIA, *H. B. K.* (Vaccinium, *L.*)
 dumòsa, *T. & G.* (Dwarf Huckleberry.)
 Low sandy woods; Thompson's, &c. Not common. June.
 frondòsa, *T. & G.* (Blue Tangle.)
 Moist woods. Frequent. May.
 resinòsa, *T. & G.* (Black Huckleberry.)
 Dry woods. Frequent. May.
2. VACCINIUM, *L.*
 macrocárpon, *Ait.* (Cranberry.)
 Peat bogs; Thompson's and elsewhere. Frequent. June.
 stamíneum, *L.* (Deerberry.)
 Woods and thickets. Frequent. May.
 Pennsylvánicum, *Lam.* (Sugar Huckleberry.)
 Hilly woodlands. Frequent. May.
 corymbòsum, *L.* (Swamp Huckleberry.)
 Swamps and thickets. Frequent. May.
 corymbòsum, var. atrocárpum? *Gr.*
 Border of cedar swamp in Appoquinimink Hundred. Rare. Fruit minutely verrucose.

SUB-ORDER 2.—ERICINEÆ.

3. EPIGÆA, *L.*
 rèpens, *L.* (Trailing Arbutus.)
 Hilly and sandy woods, mostly under Kalmia; Rodgers', Twaddle's, and Speakman's. Not common. April.
4. GAULTHERIA,[1] *Kalm.*
 procúmbens, *L.* (Wintergreen. Teaberry.)
 Woods; Red Clay Creek hills; Speakman's. Rare. July.
5. LEUCOTHOË, *Don.* (Andromeda, *L.*)
 racemòsa, *Gr.*
 Moist thickets; Thompson's, &c. Frequent. June.

[1] This plant furnishes the aromatic oil which is used in the manufacture of the so-called sarsaparilla syrups, &c.

6. CASSANDRA, *Don.* (Andromeda, *L.*)
 calyculàta, *Don.* (Leather-leaf.)
 Bogs; Thompson's. Rare elsewhere. June.
7. ANDROMEDA, *L.*
 Mariàna, *L.* (Stagger-bush.)
 Sandy thickets; Thompson's, Deringer's, &c. Frequent. June.
 ligustrìna, *Muhl.* (Pepper-bush.)
 Moist woods and thickets. Frequent. June.
8. CLETHRA, *L.*
 alnifòlia, *L.* (Sweet Pepper-bush.)
 Wet thickets. Frequent. July.
9. KALMIA,[1] *L.*
 latifòlia, *L.* (Laurel.)
 Shaded sterile hills. Common. May.
 angustifòlia,[2] *L.* (Sheep Laurel.)
 Open sandy woods; Rodgers' and P. Clark's. Rare. July.
10. AZALEA, *L.*
 viscòsa,[3] *L.* (Swamp Honeysuckle.)
 Swamps; Hand's, Thompson's, &c. Frequent. June.
 nudiflòra, *L.* (Wild Honeysuckle.)
 Rich woods; Brandywine and elsewhere. Frequent. April.

SUB-ORDER 3.—PYROLEÆ.

11. PYROLA, *L.*
 rotundifòlia, *L.* (Round-leaved Wintergreen.)
 Rich woodlands. Frequent. June.
 ellíptica, *Nutt.* (Shin-leaf.)
 Woodlands. Frequent. June.
12. CHIMAPHILA,[4] *Pursh.*
 umbellàta, *Nutt.* (Pipsissewa.)
 Dry woods. Frequent. June.

[1] This beautiful shrub, which is exclusively American, has been proposed by an eminent botanist as the national emblem.

[2] This species is highly deleterious to sheep when eaten by them.

[3] Var. glauca, *Gr.*, is frequent in swamps.

[4] An infusion of the leaves is much used as a domestic remedy.

(12. CHIMAPHILA.)

maculàta, *Pursh.* (Spotted Pipsissewa.)

Dry woods. Common. June.

SUB-ORDER 4.—MONOTROPEÆ.

13. MONOTROPA, *L.*

uniflòra, *L.* (Indian Pipe.)

Rich woods. Frequent. June.

Hypópitys, *L.* (Pine Sap. False Beech-drops.)

Moist oak and pine woods. Frequent. July.

ORDER 51.—AQUIFOLIACEÆ. 64.

1. ILEX, *L.* (Ilex and Prinos, *L.*)

opàca, *Ait.* (Holly.)

Shellpot Hill; Folly Woods. Rare in the northern part of the county. June.

verticillàta, *Gr.* (Black Alder.)

(Prinos verticillata, *L.*)

Wet thickets. Frequent. The scarlet berries quite showy in autumn and winter.

lævigàta, *Gray.* (Smooth Winter-berry.)

Wet woods; J. Peach's. Rare. June.

ORDER 52.—EBENACEÆ. 66.

1. DIOSPYROS, *L.*

Virginiàna, *L.* (Persimmon.)

Low woods and old fields. Frequent. June.

ORDER 53.—PLANTAGINACEÆ. 68.

1. PLANTAGO, *L.*

major, *L.* (Plantain.)

Moist ground near paths. Common. June—July.

lanceolàta, *L.* (Ripple-grass.)

Dry pastures. Common. May.

Virgínica, *L.*

Sterile old fields. Frequent. May.

pusílla? *Nutt.*

Detected in 1843 near Public School-house No. 7, growing in dry fields. Rare. April—Aug.

ORDER 54.—PRIMULACEÆ. 70.

1. LYSIMACHIA, *L.*

strícta, *Ait.*

Swampy ground. Frequent. June.

quadrifòlia, *L.* (Loosestrife.)

Moist grounds. Frequent. June.

ciliàta, *L.*

Moist thickets; borders of woods. Frequent. June.

lanceolàta, *Walt.*

Low ground near School-house No. 47. Rare elsewhere. July.

2. ANAGALLIS, *Tourn.*

arvénsis, *L.* (Scarlet Pimpernel.)

Sandy fields and roadsides. Frequent. June.

3. SAMOLUS, *L.*

Valerándi, *L.*, var. Americanus, *Gr.*

Moist sandy soil; Collins' Beach. Rare. July.

4. HOTTONIA, *L.*

inflàta, *Ell.* (Featherfoil.)

In water; pond near Ogletown. Rare. June.

ORDER 55.—LENTIBULACEÆ. 71.

1. UTRICULARIA, *L.*

inflàta, *Walt.*

Ponds; J. W. Andrews'. Rare. Aug.

vulgàris, *L.* (Bladderwort.)

Ditches and pools; around Wilmington. Frequent. June.

clandestìna, *Nutt.*

Pools in cedar swamp, Appoquinimink, near Johnson's. Rare. July.

gíbba, *L.*

Ponds and shallow streams; Thompson's, &c. Not common. July.

subulàta,[1] *L.* (Tiny Bladderwort.)

Sandy swamps, rooting in the soil; Thompson's, Ogletown, &c. Not rare. June—Oct.

[1] Plant sometimes but one inch high.

ORDER 56.—BIGNONIACEÆ. 72.

1. TECOMA, *Juss.*
 radìcans, *Juss.* (Trumpet Creeper.)
 Fields and fencerows. Frequent in the southern part of the county. July.
2. CATALPA, *Scop.*
 bignonioìdes, *Walt.* (Catawba Bean Tree.)
 Roadsides, &c., about houses. Frequent. June.
3. MARTYNIA,[1] *L.*
 proboscídea, *Glox.* (Unicorn Plant.)
 Gardens, &c. Growing spontaneously. July.

ORDER 57.—OROBANCHACEÆ. 73.

1. EPIPHEGUS, *Nutt.*
 Virginiàna, *Bart.* (Beech-drops.)
 Parasitic on beech roots. Frequent. Sept.
2. CONOPHOLIS, *Wallroth.* (Orobanche, *L.*)
 Americàna, *Wallr.* (Squaw Root.)
 Rich oak woods; Brandywine. Not common. June.
3. APHYLLON, *Mitchell.* (Orobanche, *L.*)
 uniflòrum, *T. & G.* (Broom-rape.)
 Hilly woodlands. Frequent. May.

ORDER 58.—SCROPHULARIACEÆ. 74.

SUB-ORDER 1.—ANTIRRHINIDEÆ.

1. VERBASCUM, *L.*
 Thápsus, *L.* (Mullein.)
 Neglected fields, &c. Common. June.
 Blattària, *L.* (Moth Mullein.)
 Pastures and fields. Common. June.
2. LINARIA, *Tourn.*
 vulgàris, *Mill.* (Toadflax. Ranstead.)
 Meadows and pastures. Common. June.
 Canadensis, *Spreng.*
 Sandy soil; Townsend. Rare. June, 1860.
3. SCROPHULARIA, *Tourn.*
 nodòsa, *L.* (Figwort. Carpenter's Square.)
 Moist woods, &c. Frequent. June.

[1] The soft green fruit-pods are used for pickles.

4. CHELONE, *Tourn.*
 glàbra, *L.* (Turtle-head. Snake-head.)
 Wet banks of streams. Frequent. Aug.
5. MIMULUS, *L.*
 ríngens, *L.* (Monkey-flower.)
 Wet places. Frequent. Aug.
 alàtus, *Ait.*
 Low grounds, along rivulets. Frequent. July.
6. GRATIOLA, *L.*
 Virginiàna, *L.* (Hedge Hyssop.)
 Wet places. Frequent. June.
7. ILYSANTHES, *Raf.* (Lindérnia, *Muhl.*)
 gratioloìdes, *Benth.* (False Pimpernel.)
 Wet places, along rivulets. Frequent. July.

SUB-ORDER 2.—RHINANTHIDEÆ.

8. VERONICA, *L.*
 Virgínica, *L.* (Tall Speedwell.)
 Borders of low woods; Red Clay Creek. Frequent. July.
 Americàna, *Schw.* (Brooklime.)
 Muddy rivulets; Brandywine, near Jessup's Mill. Rather rare. June.
 officinàlis, *L.* (Common Speedwell.)
 Dry open woods. Frequent. July.
 serpyllifòlia, *L.* (Paul's Betony.)
 Grassy roadsides and fields. Frequent. May.
 peregrìna, *L.* (Neckweed.)
 Waste places and gardens. Frequent. May.
 arvénsis, *L.* (Corn Speedwell.)
 Cultivated grounds. Frequent. May.
 hederæfòlia, *L.* (Ivy-leaved Speedwell.)
 Pastures; Rev. A. Lee's. Rare. April.
9. BUCHNERA, *L.*
 Americàna, *L.* (Blue-hearts.)
 Sterile soil; Hand's, Smith's Bridge, &c. Not common. Aug.
10. GERARDIA, *L.*
 purpùrea, *L.*
 Swampy grounds. Frequent. Aug.—Oct.

(10. Gerardia.)

tenuifòlia, *Vahl.*

Dry sterile woods. Common. Aug.

flàva, *L.* (Yellow Gerardia.)

Hilly open woods. Frequent. July.

quercifòlia, *Pursh.*

Rich woods; Brandywine. Frequent. Aug.

pediculària, *L.*

Dry open woods. Frequent. Aug.

11. Castilleia, *Mutis.* (Euchroma, *Nutt.*)

coccínea, *Spreng.* (Painted Cup.)

Low grounds; J. Kellam's and elsewhere. Rather rare. April.

12. Pedicularis, *Tourn.*

Canadénsis, *L.* (Lousewort.)

Woods and banks. Frequent. May.

lanceolàta, *Michx.* (Tall Lousewort.)

Borders of swamps; Thompson's, &c. Frequent. Aug.

13. Melampyrum, *Tourn.*

Americànum, *Michx.* (Cow Wheat.)

Sandy woods; Rodgers', &c. Frequent. June.

Order 58.*—ACANTHACEÆ. 75.

1. Dianthera, *Gronov.*

Americana, *L.* (Water Willow.)

Banks of Canal; St. George's. Frequent. July.

Order 59.—VERBENACEÆ. 76.

1. Verbena, *L.*

hastàta, *L.* (Blue Vervain.)

Meadows. Common. July.

urticifòlia, *L.* (White Vervain.)

Old fields, pastures, &c. Common. July.

officinàlis, *L.* (Common Vervain.)

Streets of Wilmington. Scarce elsewhere. July.

2. Phryma, *L.*

Leptostàchya, *L.* (Lop-seed.)

Rich woods; Brandywine, &c. Frequent. July.

ORDER 60.—LABIATÆ. 77.

1. TEUCRIUM, *L.*
 Canadénse, *L.* (Germander.)
 Alluvial meadows near Wilmington, where it is troublesome on account of its extensive rhizomas. July.
2. TRICHOSTEMA, *L.*
 dichótomum, *L.* (Blue Curls.)
 Sandy fields. Frequent. Aug.
3. MENTHA, *L.*
 víridis, *L.* (Spearmint.)
 Moist grounds. Frequent. July.
 piperìta, *L.* (Peppermint.)
 Wet places; W. Lea's. Not common. Aug.
 Canadénsis, *L.* (Wild Mint.)
 Moist ground; race banks. Frequent. Aug.
4. LYCOPUS, *L.*
 Virgínicus, *L.* (Bugle-weed.)
 Shaded wet places. Common. July.
 Europæus, *L.*, var. Sinuâtus. *Gr.*
 Low grounds. Frequent. July.
5. CUNILA, *L.*
 Mariàna, *L.* (Dittany.)
 Dry hilly woodlands. Frequent. July.
6. PYCNANTHEMUM, *Michx.*
 incànum, *Michx.* (Mountain Mint.)
 Rocky woods; Brandywine, &c. Frequent. Aug.
 mùticum, *Pers.* (Indian Mint.)
 Hilly woods; Brandywine, &c. Frequent. Aug.
 lanceolàtum, *Pursh.*
 Dry thickets, old fields, &c. Common. Aug.
 linifòlium, *Pursh.* (Virginia Thyme.)
 Borders of thickets. Frequent. July.
7. ORIGANUM, *L.*
 vulgàre, *L.* (Wild Marjoram.)
 Sandy roadsides; New Castle road. Frequent. July.
8. CALAMINTHA, *Mœnch.* (Clinopodium, *L.*)
 Clinopòdium, *Benth.* (Basil.)
 Dry sandy banks and fields. Frequent. July.

9. MELISSA, *L.*
 officinàlis, *L.* (Balm.)
 Around gardens, whence it has escaped. July.
10. HEDEOMA, *Pers.*
 pulegioìdes, *Pers.* (Pennyroyal.)
 Dry hills; old fields. Common. July.
11. COLLINSONIA,[1] *L.*
 Canadénsis, *L.* (Horse Balm.)
 Rich woods. Frequent. July.
12. SALVIA,[2] *L.*
 lyràta, *L.* (Meadow Sage.)
 Woods and meadows. Frequent. June.
13. MONARDA, *L.*
 fistulòsa, *L.* (Horsemint.)
 Open woods and borders of thickets. Frequent. July.
14. BLEPHILIA, *Raf.*
 ciliàta, *Raf.*
 Dry open places; Col. Davis'? (J. H. Brakeley). Rare. June.
15. LOPHANTHUS, *Benth.*
 nepetoìdes, *Benth.*
 Open woods; Red Clay Creek, &c. Not common. Aug.
 scrophulariæfòlius, *Benth.*
 Open sandy woods; Brandywine; J. Mason's; Red Clay Creek. Not common. Aug.
16. NEPETA, *L.*
 Catària, *L.* (Catmint. Catnep.)
 Gardens and fencerows. Common. June.
 Glechòma, *Benth.* (Ground Ivy.)
 Open sandy woods; Brandywine, &c. Frequent. May.
17. BRUNELLA, *Tourn.* (Prunella, *L.*)
 vulgàris, *L.* (Heal-all.)
 Woods, fields, and roadsides. Common. June.

[1] Whole plant, when bruised, exhaling the odor of lemons.

[2] The sage of the garden belongs to this genus.

18. Scutellaria, *L.*

saxátilis, *Riddell.*

Rocky woods; Brandywine above J. Bancroft's mill, and near Stanton; (Dr. Michener.) Rare. June.

pilòsa, *Michx.* (Skullcap.)

Dry open woods. Frequent. June.

integrifòlia, *L.*

Moist meadows, &c. Frequent. June. Whole plant intensely bitter.

párvula, *Michx.*

Dry banks; Folly Woods. Rare. May.

galericulàta, *L.*

Moist meadows; Cherry Island. Rare. July.

lateriflòra, *L.* (Mad-dog Skullcap.)

Moist banks; along Brandywine, &c. Frequent. July.

19. Marrubium, *L.*

vulgàre, *L.* (Horehound.)

Escaped from gardens into waste stony places. July.

20. Stachys, *L.*

palústris, *L.*, var. áspera, *Gr.*

Moist places along Brandywine. Frequent. July.

palústris, *L.*, var. cordàta, *Gr.*

Alluvial meadows; Cherry Island. Frequent. July.

hyssopifòlia, *Michx.*

Wet places; Stanton; (Dr. Michener.) Rare. July.

21. Leonurus, *L.*

Cardìaca, *L.* (Motherwort.)

Waste places around old buildings. Frequent. June.

Marrubiástrum, *L.*

Roadsides. Found by W. M. Canby near Smith's Bridge, July, 1859. Rare.

22. Lamium, *L.*

amplexicaùle, *L.* (Dead Nettle.)

Cultivated grounds. Common. April.

Order 61.—BORAGINACEÆ. 78.

1. Echium, *Tourn.*

vulgàre, *L.* (Viper's Bugloss.)

Fields and roadsides; Shellpot Hill; Platt's Mill, &c. Not common. June.

2. SYMPHITUM, *Tourn.*
 officinàle, *L.* (Comfrey.)
 Roadsides; escaped from gardens. Not common. June.
3. ONOSMODIUM, *Michx.*
 Virginiànum, *DC.*
 Dry banks; Brandywine, Red Clay Creek, &c. Frequent. June.
4. LITHOSPERMUM,[1] *Tourn.*
 arvénse, *L.* (Corn Gromwell.)
 Fields and roadsides. Common. May.
5. MERTENSIA, *Roth.* (Pulmonària, *L.*)
 Virgínica, *DC.* (Virginia Cowslip. Brandywine Cowslip. Lungwort.)
 Moist sandy ground; Brandywine, &c. Frequent. May.
6. MYOSOTIS, *L.*
 palústris, *With.* (Forget-me-not.)
 Springy places. Frequent. May.
 vérna, *Nutt.*
 Dry banks; Brandywine, near J. Tatnall's quarry, &c. Not common. May.
7. ECHINOSPERMUM, *Swartz.*
 Láppula, *Lehm.* (Stickseed.)
 Waste places; near Phillips' Mill (Mrs. H. Phillips). Not common. July.
8. CYNOGLOSSUM, *Tourn.*
 Virgínicum, *L.* (Hound's Tongue. Wild Comfrey.)
 Rich woods. Common. June.
 officinàlis, *L.* (Common Hound's Tongue.)
 Waste grounds; St. George's. Rare. June.
 MORISONI, *DC.* (Beggars' Lice.)
 Borders of copses, fencerows, &c. Frequent. July.

ORDER 62.—HYDROPHYLLACEÆ. 79.

1. HYDROPHYLLUM, *L.*
 Virgínicum, *L.* (Waterleaf.)
 Rich soil among rocks; Wills' Rock. May.

[1] A troublesome weed to the farmers. Eradicated with great difficulty.

ORDER 63.—POLEMONIACEÆ. 80.

1. POLEMONIUM, *Tourn.*
 réptans, *L.* (Jacob's Ladder. Greek Valerian, and inappropriately Brandywine Jessamine.)
 Moist sandy soil; Brandywine, &c. Frequent. May.
2. PHLOX, *L.*
 maculàta, *L.* (Wild Sweet-William.)
 Wet meadows, &c. Frequent. June.
 pilòsa, *L.*
 Borders of thickets; throughout. Not common. May.

ORDER 64.—CONVOLVULACEÆ. 81.

1. QUAMOCLIT, *Tourn.*
 coccínea, *Mœnch.*
 Cultivated grounds; W. Lea's. Not common out of gardens. July.
2. IPOMŒA, *L.*
 purpùrea, *Lam.* (Morning-Glory.)
 About gardens, &c. Frequent. July.
 panduràta, *Meyer.* (Wild Potato-vine. Man-of-the-earth.)
 Sandy banks; Brandywine, &c. Frequent. July.
3. CONVOLVULUS, *L.*
 arvénsis, *L.* (Bindweed.)
 Dry banks; N. Castle R. R., near McCrone's. Rare. Detected by W. M. Canby, June, 1860.
4. CALYSTEGIA, *R. Br.*
 sèpium,[1] *R. Br.* (Hedge Bindweed.)
 Alluvial meadows; Cherry Island, &c. June.
 spithamæa, *Pursh.* (Low Bindweed.)
 Open sandy woods, &c.; Brandywine. Frequent.
5. CUSCUTA, *Tourn.*
 Gronòvii, *Willd.* (Dodder. Love-vine.)
 Low grounds; Brandywine, &c. Common. Aug.

[1] A vile nuisance; which may, however, be destroyed by close pasturing.

(5. Cuscuta.)

chlorocárpa, *Engelm.*

Alluvial soil, on Polygonum. Cherry Island. Rare. Aug.

compácta, *Juss.*

Wet sandy soil, on Benzoin and Cephalanthus. Frequent. Aug.

Order 65.—SOLANACEÆ. 82.

1. Solanum, *L.*

Dulcamàra, *L.* (Bittersweet.)

Roadsides and waste places. Frequent. July.

nìgrum,[1] *L.* (Nightshade.)

Waste places. Common. July.

Carolinénse, *L.* (Horse-nettle. Sodom-apple.)

Fields and roadsides. Frequent. July.

2. Lycopersicum, *Tourn.*

esculéntum, *Mill.* (Tomato. Love-apple.)

Spontaneous about gardens. June.

3. Physalis, *L.*

viscòsa, *L.* (Ground Cherry.)

Dry fields and roadsides. Frequent. July.

pubéscens? *L.*

Low open woods; Brandywine. Not rare. July.

4. Nicandra, *Adans.*

physaloìdes, *Gærtn.* (Apple of Peru.)

Waste places about gardens. Not common. July.

5. Datura,[2] *L.*

Stramònium, *L.* (Jamestown-weed. Thorn-apple.)

Barnyards and waste places. Common. July.

6. Petunia, *Juss.*

nictagyniflòra, *Juss.*

Becoming naturalized about gardens. June.

7. Lycium, *L.*

Bárbarum, *L.* (Matrimony Vine.)

Fully naturalized about gardens, and exceedingly difficult to exterminate. June.

[1] A poisonous plant, common in gardens.

[2] Plant a powerful narcotic. Seeds sometimes eaten by children with fatal effect.

ORDER 66.—GENTIANACEÆ. 83.

1. SABBATIA, *Adans.*

angulàris, *Pursh.* (Centaury.)

Old fields and open woods. Frequent. July.

stellàris, *Pursh.*

Salt marshes; Deakyne's landing. Not common. July.

2. GENTIANA, *L.*

crinìta. *Frœl.* (Fringed Gentian.)

Hilly woodlands; Lovering's, Twaddle's. Rare, and becoming more so.

ochroleùca, *Frœl.* (White Gentian.)

Dry rocky woods; Elliott's Run. Not common. Sept.

Andréwsii, *Griseb.* (Common Gentian.)

Low grounds; margins of rivulets, &c. Frequent. Sept. (G. Saponaria, *Frœl.*, et al., not of *L.*)

Saponària, *L.* (Soapwort Gentian.)

Dry clay fields and borders of swamps; Thompson's, Hand's, P. Clark's, &c. Frequent. Oct.

3. BARTONIA, *Muhl.* (Centaurella, *Michx.*)

tenélla, *Muhl.*

Margins of swamps; Hand's, Thompson's. Rare. Aug.

4. OBOLARIA, *L.*

Virgínica, *L.* (Pennywort.)

Deep rich woods; Brandywine, &c. Frequent. April.

5. MENYANTHES, *Tourn.*

trifoliàta, *L.* (Buckbean.)

Bogs; Thompson's. Rare. May.

ORDER 67.—APOCYNACEÆ. 84.

1. APOCYNUM, *Tourn.*

androsæmifòlium, *L.* (Dogbane.)

Thickets, fencerows, &c. Frequent. June.

cannábinum, *L.* (Indian Hemp.)

Borders of dry woods, &c. Frequent. Aug.

cannábinum, *L.*, var. pubéscens, *DC.*

Similar situations; Jessup's, &c. Frequent. Aug.

ORDER 68.—ASCLEPIADACEÆ. 85.

1. ASCLEPIAS, *L.*

Cornùti, *Decaisne.* (Milkweed.)
Rich fields, &c. Frequent. June.

phytolaccoìdes, *Pursh.* (Poke Milkweed.)
Moist thickets, &c.; Brandywine. Not common. June.

purpuráscens, *L.* (Purple Milkweed.)
Borders of woods, fencerows, &c. Frequent. July.

variegàta, *L.* (Variegated Milkweed.)
Rich woodlands; Brandywine, &c. Frequent. June.

quadrifòlia, *Jacq.* (Four-leaved Milkweed.)
Rich woodlands. Frequent. May.

obtusifòlia, *Michx.* (Wavy-leaved Milkweed.)
Dry hills; Brandywine. Not common. July.

rùbra, *L.* (Red Milkweed.)
Borders of swamps; Thompson's, McCrone's. Not common. July. (A. laurifolia, *Michx.*)

incarnàta,[1] *L.*
Wet grounds along streams. Common. July.

tuberòsa, *L.* (Butterfly-weed. Pleurisy-root.)
Dry fields, fencerows, &c. Frequent. July.

?verticillàta, *L.*
Is quite frequent in Chester Co., Pa., and most probably will be found on the serpentine knolls of Christiana Hundred.

2. ACERATES, *Ell.*

viridiffòra, *Ell.* (Green Milkweed.)
Dry hills, &c.; Newark (R. Kilvington); Mill Creek (Dr. Michener). Rare. July.

ORDER 69.—OLEACEÆ. 86.

1. LIGUSTRUM,[2] *Tourn.*

vulgàre, *L.* (Privet. Prim.)
Roadsides and fencerows. Frequent. June.

[1] Fibre of the bark very strong.

[2] Popular in some sections as a hedge plant.

2. Chionanthus, *L.*
 Virgínica, *L.* (Fringe Tree.)
 Sandy banks and swamps; opposite Bancroft's, on Brandywine, P. Clark's, &c. Frequent. June.
3. Fraxinus, *Tourn.*
 Americàna, *L.* (White Ash.)
 Moist woods and meadows. Frequent. May.
 pubéscens, *Lam.* (Red Ash.)
 Low grounds; Brandywine, &c. Frequent. May.
 sambucifòlia, *Lam.* (Black Ash. Water Ash.)
 Banks of streams; Brandywine, Red Clay Creek. Rare. April.

Division 3.—APETALOUS EXOGENS.

Order 70.—ARISTOLOCHIACEÆ. 87.

1. Asarum, *Tourn.*
 Canadénse, *L.* (Wild Ginger.)
 Rocky hillsides in rich woods; Brandywine, &c. Frequent. May.
2. Aristolochia, *Tourn.*
 Serpentària, *L.* (Virginia Snakeroot.)
 Rich woods; Brandywine, &c. Frequent. July.

Order 71.—PHYTOLACCACEÆ. 89.

1. Phytolacca, *Tourn.*
 decándra, *L.* (Poke. Poke-weed.)
 Borders of woods, &c. Common. June.

Order 72.—CHENOPODIACEÆ. 90.

1. Chenopodium, *L.*
 úrbicum, *L.*
 Streets of Wilmington, &c. Common. Aug.

(1. Chenopodium.)

muràle? *L.*

Streets of Brandywine village. Frequent. Aug.

álbum, *L.* (Lamb's-quarters. Goosefoot.)

Yards and gardens. Common. July.

Bòtrys, *L.* (Jerusalem Oak.)

Streets and wharves; Wilmington Common. July.

ambrosioìdes, *L.* (Mexican Tea.)

With the last, frequent. Aug.

ambrosioìdes, *L.*, var. anthelmínticum, *Gr.*

Similar situations. Frequent. July—Aug.

2. Blitum, *Tourn.*

Bònus-Henrìcus, *Reich.*

Roadsides; "Mill Lane." Not common. July.

3. Atriplex, *Tourn.*

hastàta, *L.*

Brackish soil; Collins' Beach. Frequent. July.

4. Salsola, *L.*

Kàli, *L.* (Saltwort.)

Brackish shores; Collins', Fort Delaware. Rare elsewhere. Aug.

Order 73.—AMARANTACEÆ. 91.

1. Amarantus, *Tourn.*

paniculàtus, *L.*

In gardens, &c. Frequent. Sept.

hýbridus, *L.* (Pigweed.)

Waste places and gardens. Common. Aug.

spinòsus, *L.* (Thorny Amaranth.)

Waste places. Frequent. Aug.

álbus, *L.*

Roadsides and waste places. Frequent. Aug.

2. Acnida, *L.*

cannábina, *L.* (Water Hemp.)

Muddy shores on tide-water. Frequent. Aug.

Order 74.—POLYGONACEÆ. 92.

1. Polygonum, *L.*

orientàle, *L.*

About gardens, &c. Frequent. Aug.

(1. Polygonum.)

amphíbium, *L.* (Water Knotweed.)

Borders of ditches; Cherry Island, Gordon's. Rare. Not found in flower. Aug.

Pennsylvánicum, *L.*

Moist grounds; Brandywine. Frequent. July.

Persicària, *L.* (Lady's Thumb.)

Waste places, roadsides, &c. Common. Aug.

Hydropìper, *L.* (Smart-weed.)

Wet grounds, race banks. Common. Aug.

àcre, *H. B. K.* (Wild Smart-weed.)

With the last, and very like it. Frequent. Aug.

hydropiperoìdes, *Michx.*

Wet places along rivulets. Frequent. Aug.

aviculàre, *L.* (Knotgrass. Goosegrass. Door-weed.)

Yards and footpaths. Common. June.

aviculàre, *L.*, var. eréctum, *Roth.*

Shaded roadsides and waste places. Frequent. June.

aviculàre, *L.*, var. ?littoràle, *Link.*

Beaches; probably in Appoquinimink Hundred; found in Kent Co. (*Dr. Michener.*)

ténne, *Michx.* (Slender Knotgrass.)

Dry rocky hills. Frequent. July.

Virginiànum, *L.*

Rich woods, &c. Frequent. July.

arifòlium, *L.* (Halbert-leaved Tear-thumb.)

Low grounds. Common. Aug.

Sagittàtum, *L.* (Arrow-leaved Tear-thumb.)

Wet meadows, &c. Common. Aug.

Convólvulus, *L.* (Black Bindweed.)

Cultivated grounds. Common. July.

dumetòrum, *L.* (Climbing Buckwheat.)

Moist thickets, &c. Frequent. Aug.

2. Fagopyrum, *Tourn.*

esculéntum, *Mœnch.* (Buckwheat.)

Old fields, &c. Frequent after crops of the same. Aug.

3. Rumex, *L.*

obtusifòlius, L. (Bitter Dock.)

Fields and gardens. Common. July.

(3. RUMEX.)

crispus, *L.* (Sour Dock. Curled Dock.)
Fields and waste places. Common. May.

sanguíneus, *L.* (Red Dock.)
Fencerows and fields. Frequent. June.

Acetocélla, *L.* (Sheep Sorrel.)
Fields; sterile or fertile. Common. May.

ORDER 75.—LAURACEÆ. 93.

1. SASSAFRAS, *Nees.* (Laurus, *L.*)
officinàle, *Nees.*
Dry woods and fencerows. Frequent. April.
2. BENZOIN, *Nees.* (Laurus, *L.*)
odoríferum, *Nees.* (Spice Wood.)
Moist thickets. Common. April.

ORDER 76.—THYMELACEÆ. 94.

1. DIRCA, *L.*
palústris, *L.* (Leather Wood.)
Sandy open woods near Brandywine Bridge. Frequent. April.

ORDER 77.—SANTALACEÆ. 96.

1. COMANDRA, *Nutt.*
umbellàta, *Nutt.* (False Toad-flax.)
Sandy soil; Brandywine near lower dam, &c. Frequent. June.

ORDER 78. LORANTHACEÆ. 97.

1. PHORADENDRON, *Nutt.* (Viscum, *Pursh.*)
flavéscens, *Nutt.* (Mistletoe.)
Parasitic on Maple and Gum trees, &c.; G. Lodges, and Folly woods. Rare. May.

ORDER 79.—SAURURACEÆ. 98.

1. SAURURUS, *L.*
cérnuus, *L.* (Lizard's-tail.)
Margins of ponds and swamps; Claymont, Cedar Swamp, Appoquinimink Hundred. Very scarce elsewhere. July.

ORDER 80.—CERATOPHYLLACEÆ. 99.

1. CERATOPHYLLUM, *L.*
 demérsum, *L.* (Hornwort.)
 Ponds and ditches. Common. June.

ORDER 81.—CALLITRICHACEÆ. 100.

1. CALLITRICHE, *L.*
 vérna, *L.* (Water Starwort.)
 Shallow pools and ditches. Common. April.

ORDER 82.—PODOSTEMACEÆ. 101.

1. PODOSTEMON, *Michx.*
 Ceratophýllum, *Michx.* (River-weed.)
 Attached to rocks and stones in the bottom of swift shallow streams; Brandywine, &c. Frequent. Aug.

ORDER 83.—EUPHORBIACEÆ. 102.

1. EUPHORBIA, *L.*
 polygonifòlia, L. (Shore Spurge.)
 Sandy shores; Collins' beach. Frequent. July.
 maculàta, *L.* (Spotted Spurge.)
 Cultivated grounds, &c. Common. July.
 hypericifòlia, *L.*
 Pastures and roadsides. Common. July.
 corollàta, *L.* (Flowering Spurge.)
 Sandy soil and fencerows. Frequent. Aug.
 Darlingtònii, *Gray.*
 Moist woods; S. of New Garden (J. Hoopes). Rare. May.
2. ACALYPHA, *L.*
 Virgínica, *L.* (Three-seeded Mercury.)
 Fields and open woods. Common. July.
3. RICINIS, *L.*
 commùnis, *L.* (Castor-oil plant.)
 Sometimes spontaneous about gardens. June.

Order 84.—URTICACEÆ. 104.

Sub-Order 1.—ULMACEÆ.

1. Ulmus, *L.*

fúlva, *Michx.* (Slippery Elm.)
Rich low woods; Brandywine, &c. Frequent. April.

Americàna, *L.* (American Elm.)
Rich grounds along streams. Frequent. April.

2. Celtis, *Tourn.*

occidentàlis, *L.* (Sugar-berry. Hackberry.)
Moist woods along Brandywine, &c. Frequent. May.

occidentàlis, *L.*, var. crassifòlia, *Gr.*
Hilly woods, &c.; Brandywine. Not very common. May.

occidentàlis, *L.*, var. pùmila, *Gr.*
Dry rocky hills; Rocky Ridge. Frequent. May.

Sub-Order 2.—ARTOCARPEÆ.

3. Morus,[1] *Tourn.*

rùbra, *L.* (Red Mulberry.)
Rich woods throughout the county. Frequent. May.

álba, *L.* (White Mulberry.)
Fencerows, yards, &c. Frequent. May.

4. Broussonetia, *Vent.*

papyrífera, *Vent.* (Paper Mulberry.)
Partially naturalized about yards. May. Native of Japan.

Sub-Order 3.—URTICEÆ.

5. Urtica, *Tourn.*

dioìca, *L.* (Stinging Nettle.)
Roadsides and waste places. Frequent. June. Europe.

6. Laportea, *Gaudich.*

Canadénsis, *Gaud.* (Wood Nettle.)
Moist sandy woods. Frequent. July.

7. Pilea, *Lindl.*

pùmila, *Gray.* (Richweed.)
Damp rich woods. Common. July.

[1] Wood solid and durable.

8. Bœhmeria, *Jacq.*
 cylíndrica, *Willd.* (False Nettle.)
 Moist ground along Brandywine. Common. July.

Sub-Order 4.—CANNABINEÆ.

9. Cannabis, *Tourn.*
 satìva, *L.* (Hemp.)
 Waste places. Escaped from cultivation. June. Persia.
10. Humulus, *L.*
 lùpulus, *L.* (Hop.)
 Banks of streams; Brandywine, &c. Not rare. July.

Order 85.—PLATANACEÆ. 105.

1. Platanus,[1] *L.*
 occidentàlis, *L.* (Buttonwood. Plane-tree.)
 Banks of streams, &c. Frequent. April.

Order. 86.—JUGLANDACEÆ. 106.

1. Juglans, *L.*
 cinèrea, *L.* (White Walnut. Butternut.)
 Rich rocky woods. Frequent. May.
 nìgra, *L.* (Black Walnut.)
 Rich woods and fencerows. Frequent. May.
2. Carya, *Nutt.*
 álba, *Nutt.* (Shellbark Hickory.)
 Low woods along the northern county line. Rare elsewhere. May.
 tomentòsa, (Mocker-nut. White-heart Hickory.)
 Rich woods. Common. May.
 microcárpa, *Nutt.* (Small-fruited Hickory.)
 Moist woods. Frequent. May.
 glàbra, *Torr.* (Pignut. Broom Hickory.)
 Low woods. Frequent. May.

[1] This tree has been for several years subject to a loss of foliage, which is said, by an observer in Wilmington, to be occasioned by the depredations of a small caterpillar, which perforates the dilated base of the petiole and destroys the young bud which it encloses.

(2. Carya.)

amàra, *Nutt.* (Bitter Nut.)

Wet woods along streams. Frequent. May.

Order 87.—CUPULIFERÆ. 107.

1. Quercus, *L.* (Oak.)

obtusíloba, *Michx.* (Post Oak.)

Dry rocky hills. Frequent. All the species flower in May.

álba,[1] *L.* (White Oak.)

Woods. Common.

prìnus, *L.* (Swamp Chestnut-Oak.)

Low grounds Frequent. Acorn long.

prìnus, *L.*, var. montícola, *Michx.* (Rock Chestnut-Oak.)

Rocky hills; Brandywine, &c. Common.

prìnus, *L.*, var. díscolor, *Michx.* (Swamp White Oak.)

Low grounds. Frequent.

castànea, *Willd.* (Yellow Chestnut-Oak.)

Rich woods; Brandywine, &c. Not common.

prinoides, *Willd.* (Chinquapin Oak.)

Dry banks; Lancaster turnpike, near S. Graves'. Rare.

Phéllos, *L.* (Willow Oak.)

Low woods; throughout the county. Common.

heterophýlla, *Michx.* (Bartram Oak.)

Low woods; Townsend Station. Rare. Detected by Thos. Meehan, June 18, 1860.

nìgra, *L.* (Black Jack.)

Dry sandy places in the western and southern part of the county. Rare elsewhere.

falcâta, *Michx.* (Spanish Oak.)

Dry woods; Mill Creek, &c. Frequent.

falcâta, *Michx.*, var. tríloba, *Gr.*

In similar situations. Frequent.

tinctòria, *Bartram.* (Quercitron. Black Oak.

Dry woods. Common.

[1] The horizontal roots, with a portion of the trunk, are much used for knees in shipbuilding.

(1. QUERCUS.)

coccínea, *Wang.* (Scarlet Oak.)

Hilly woods. Frequent.

rùbra, *L.* (Red Oak.)

Dry hilly woods. Frequent.

palústris, *Du Roi.* (Pin Oak.)

Wet woods. Common.

2. CASTANEA, *Tourn.*

vésca, *L.* (Chestnut.)

Rocky and hilly woods. Common. June.

pùmila, *Michx.* (Chinquapin.)

Sterile soil; S. W. of Newark (J. Webb); St. Ann's Church, near Middletown (J. A. Hunter). Rare elsewhere. June.

3. FAGUS, *Tourn.*

ferrugínea, *Ait.* (Beech.)

Dry woods. Common. May.

4. CORYLUS, *Tourn.*

Americana, *Walt.* (Hazelnut.)

Thickets, &c. Frequent. March.

rostràta, *Ait.* (Beaked Hazelnut.)

Rocky banks of Brandywine, near Dupont's. Rare. April.

5. CARPINUS, *L.* (Ironwood.)

Americàna, *Michx.* (Hornbeam.)

Low woods. Frequent. April.

6. OSTRYA, *Micheli.*

Virgínica, *Willd.* (Hop Hornbeam.)

Dry woods along Brandywine. Not common. April.

ORDER 88.—MYRICACEÆ. 108.

1. COMPTONIA, *Solander.*

asplenifòlia, *Ait.* (Sweet Fern.)

Woody hillsides; Red Clay Creek, &c. Frequent. April.

ORDER 89.—BETULACEÆ. 109.

1. BETULA, *Tourn.*

álba, var. populifòlia, *Spach.* (White Birch.)

Poor soil in the lower part of the county. April.

(1. Betula.)

nìgra, *L.* (Red Birch. River Birch.)

Banks of streams; Red Clay Creek; Christiana. Not common. April.

lénta, *L.* (Cherry Birch. Sweet Birch.)

Rocky hills; Brandywine; Wills' Rock, &c. Frequent. April.

2. Alnus, *Tourn.*

serrulàta, *Ait.* (Alder. Candle Alder.)

Wet thickets. Common. March.

Order 90.—SALICACEÆ. 110.

1. Salix, *Tourn.*

trístis, *Ait.* (Dwarf Gray Willow.)

Woods and hillsides; Iron Hill, &c. Not common. April.

hùmilis, *Marsh.* (Low Bush Willow.)

Low grounds; Brandywine, Christiana, &c. April.

díscolor, *Muhl.* (Glaucous Willow.)

Low grounds; Red Clay Creek. Not common. April.

serícea, *Marshall.*

Swampy thickets. Frequent. April.

álba, *L.* (White Willow.)

About yards, &c.; somewhat naturalized. April.

álba, *L*, var. vitellìna, *Carey.*

Banks of streams; Rockland. Not common. April.

frágilis, var. Russelliàna? *Carey.*

Low grounds along Brandywine, &c. Common. April.

nìgra, *Marshall.* (Swamp Willow. Black Willow.)

Wet places; Brandywine, Mill Creek, &c. Frequent. May.

nìgra, var. falcàta, *Carey.*

Similar situations. Not very common. May.

2. Populus, *Tourn.*

tremuloìdes, *Michx.* (Aspen.)

Damp woods; H. Grant's, &c. Not common. April.

grandidentàta, *Michx.*

Damp woods; H. Grant's, &c. Rare. April.

(2. Populus.)

heterophylla, *L.* (Downy-leaved Poplar.)
Meadow near Jackson's lime quarries. Rare.

græca, *Ait.* (Athenian Poplar.)
About yards, &c. Becoming rare. April.

dilitàta, *Ait.* (Lombardy Poplar.)
Yards and roadsides. Frequent. April.

álba, *L.* (Abele. Silver Poplar.)
Recently introduced as a shade tree, and rapidly increasing by suckers. April.

Sub-Class II. *Gymnospermæ.*

Order 91.—CONIFERÆ. 111.

Sub-Order 1.—ABIETINEÆ.

1. Pinus, *Tourn.*

ínops, *Ait.* (Scrub Pine.)
Sandy woods and swamps; Ogletown, &c. Frequent. May.

2. Abies, *Tourn.*

Canadénsis, *Michx.* (Hemlock Spruce.)
Hilly woods; Allapokas (I. S. Elliott). Very rare. May.

Sub-Order 2.—CUPRESSINEÆ.

3. Cupressus, *Tourn.*

thyoìdes, *L.* (White Cedar.)
Swamp in Appoquinimink Hundred only. May.

4. Juniperus, *L.*

commùnis, *L.* (Juniper.)
Dry sterile soil; Brandywine, &c. Not common. May.

Virgíniana, *L.* (Red Cedar.)
Sterile hills and fencerows. Common. April. In good soil attaining 50 to 60 feet in height.

Class II. Monocotyledonous, or Endogenous Plants.

Order 92.—ARACEÆ. 112.

1. Arisæma, *Mortius.* (Arum, *L.*)
 triphýllum, *Torr.* (Indian Turnip.)
 Rich woods. Frequent. May.
 Dracóntium, *Schott.*
 Low grounds along Brandywine, &c. Not common. May.
2. Peltandra, *Raf.*
 Virgínica, *Raf.* (Arrow Arum.)
 Muddy shores and ditches. Common. June.
3. Symplocarpus, *Salisb.*
 fœtidus, *Salisb.* (Skunk Cabbage.)
 Wet grounds. Common. Feb.—March.
4. Orontium, *L.*
 aquáticum, *L.* (Golden-club.)
 Ponds and slow streams. Frequent. May.
5. Acorus, *L.*
 Cálamus, *L.* (Calamus.)
 Muddy shores and ditches; Cherry Island and elsewhere. Common. May.

Order 93.—TYPHACEÆ. 113.

1. Typha, *Tourn.*
 latifòlia, *L.* (Cat-tail.)
 Shores, ponds, and ditches. Common. June.
 angustifòlia, *L.* (Small Cat-tail.)
 Similar situations. Frequent. June.
2. Sparganium, *Tourn.*
 símplex, *Hudson.* (Bur-reed.)
 Slow streams and ditches. Common. July.

Order 94.—LEMNACEÆ. 114.

1. Lemna, *L.*
 mínor, *L.* (Duck-weed. Duck's-meat.)
 Ditches, S. of Wilmington; J. Brown's. Frequent.

(1. LEMNA.)

perpusílla? *Torrey.*

Ditches; Cherry Island, near H. Latimer's. Not very common.

polyrhìza, *L.*

Ditches; New Castle road. Common.

ORDER 95.—NAIADACEÆ. 115.

1. NAIAS, *L.* (Caulinia, *Willd.*)

fléxilis, *Rostk.*

Ponds and slow streams. Common. July.

2. ZANNICHELLIA, *Micheli.*

palústris, *L.* (Horned Pondweed.)

Ponds and slow streams; ditches near Port Penn. Frequent. Rare elsewhere. June.

3. POTAMOGETON, *Tourn.*

hýbridus, *Michx.*

Ponds and ditches; Andrews', J. Brown's. Frequent. July.

pauciflòrus, *Pursh.*

Slow streams; Brandywine, &c. Common. May.

perfoliàtus, *L.*

Similar places. Frequent. Aug.

crispus, *L.*

Ditches; Cherry Island. May. Common. Abundant throughout the lower part of the county. Specimens sent to Dr. Gray were identified by him.

prælóngus, *Wulf.*

Ponds and streams; St. George's (Dr. Michener).

lùcens, *L.*

Ditches, near Wilmington (Dr. Michener). Aug.

flùitans, *Roth.*

Ditches; Cherry Island and elsewhere. Common. Aug.

nàtans, *L.* (Snakeweed.)

Slow streams; Brandywine races. Very common. July.

heterophýllus, *Schr.*

Shallow streams; Brandywine. Frequent. July.

ORDER 96.—ALISMACEÆ. 116.

1. ALISMA, *L.*

Plantàgo, *L.*, var. Americànum, *Gr.* (Water Plantain.)
Rivulets and marshy places. Frequent. July.

2. SAGITTARIA, *L.*

variábilis, *Engelm.* (Arrow-head.)
Muddy shores, ditches, and wet meadows. Common. July.

heterophýlla, *Pursh.*
Similar places; Cherry Island. Not common. July.

heterophýlla, var. elliptica, *Gr.*
Ditches; Cherry Island. Not common. June.

símplex? *Pursh.*
Ditches; Cherry Island, J. Jefferis'. Not common. July.

pusílla, *Nutt.*
Muddy shores of Shellpot Creek; Robinson's, &c. Not common.

ORDER 97.—HYDROCHARIDACEÆ. 117.

1. ANACHARIS, *Rich.* (Udora, *Nutt.*)

Canadénsis,[1] *Planc.* (Water-weed.)
Slow streams, &c. Common. July.

2. VALLISNERIA, *Micheli.*

spiràlis, *L.* (Tape-grass. Eel-grass.)
Slow streams; mill-races, &c. Common. Aug.

ORDER 98.—ORCHIDACEÆ. 119.

1. ORCHIS, *L.*

spectábilis, *L.* (Priest in the Pulpit.)
Rich woods. Frequent. May.

2. GYMNADENIA, *R. Br.* (Habenaria, *Hook.*)

tridentàta, *Lindl.*
Swamps and wet thickets; Thompson's, Lea's, &c. Frequent. July.

[1] A singular form occurs in the Christiana Creek near Shakespeare's Mills.

3. PLATANTHERA, *Richard.*

bracteàta, *Torr.*

Swamps; Thompson's. Rare. May.

flàva, *Gray.* (Yellowish Orchis.)

Wet places. Rare. June.

cristàta, *Lindl.* (Crested Orchis. H. herbiola, *R. Br.*)

Swamps; J. McCrone's. Rare. Aug.

ciliàris, *Lindl.* (Yellow Fringed Orchis.)

Borders of swamps; Hand's, &c. Not common. July.

blephariglóttis, *Lindl.* (White Orchis.)

Cedar swamp in Appoquinimink. Not elsewhere. July.

lácera, *Gray.* (Ragged Orchis.)

Swamps and wet thickets; Thompson's, Lea's, McCrone's, &c. Frequent. June.—July.

psycòdes, *Gray.* Not of *Muhl.*, *Spreng.*, &c.

Rich wet woods; Brandywine, N. E. side; Dupont's. Rare. July. (O. psycòdes, *L.*)

fimbriàta, *Lindl.* (Purple Orchis.)

Rich wet woods; Folly Woods. Rare. June.

4. GOODYERA, *R. Br.*

pubéscens, *R. Br.* (Rattlesnake Plantain.)

Rich hilly woods; Brandywine, &c. Frequent. July.

5. SPIRANTHES, *Richard.*

grácilis, *Big.* (Ladies' Tresses.)

Moist meadows. Frequent. July.

cérnua, *Rich.* (Corkscrew.)

Wet meadows; Pratt's, &c. Frequent. Aug.

6. ARETHUSA, *Gronov.*

bulbòsa, *L.*

Bogs, &c.; Ashley, Thompson's, Ogletown. Rare. May.

7. POGONIA, *Juss.*

ophioglossoìdes, *Nutt.*

Bogs; Thompson's, Ashley, &c. Frequent. June.

péndula, *Lindl.*

Rich woods; Hockessin, near J. Heald's (J. Hoopes). Rare. Aug.

verticillàta, *Nutt.*

Moist sandy woods; Rogers', McCrone's, Dixon's, &c. Frequent. June.

8. Calopogon, *R. Br.*
 pulchéllus, *R. Br.* (Grass Pink.)
 Bogs; Ashley, Thompson's, Ogletown. Not common. June.
9. Tipularia, *Nutt.*
 díscolor, *Nutt.* (Crane-fly Orchis.)
 Pine woods near Newark (R. Kilvington). Very rare. July.
10. Liparis, *Rich.*
 liliifòlia, *Rich.* (Tway-blade.)
 Moist woods; Brandywine. Not common. June.
11. Corallorhiza, *Haller.*
 innàta? *R. Br.* (Early Coral-root.)
 Rich moist woods; Brandywine. Not common. May.
 multiflora, *Nutt.*
 Rich woods. Found by W. M. Canby in R. McCollough's woods, Aug. 1859.
 odontorhìza, *Nutt.* (Coral-root.)
 Rich woods; throughout, but not common. Aug.
12. Aplectrum, *Nutt.*
 hyemàle,[1] *Nutt.* (Putty-root. Adam-and-Eve.)
 Rich rocky woods; Naaman's Creek, Brandywine, &c. Not rare. May.
13. Cypripedium, *L.*
 pubéscens, *Willd.* (Noah's Ark. Lady's Slipper.)
 Rich woods; Brandywine; Fell's, &c. Not common. May.
 acaùle, *Ait.* (Moccasin-flower. Lady's Slipper.)
 Sandy woods; Rogers', Dixon's, &c. Not common. May.

Order 99.—AMARYLLIDACEÆ. 120.

1. Hypoxys, *L.*
 erécta, *L.* (Star of Bethlehem.)
 Open woodlands. Common. May.

[1] The new root is always found to sink in water, whilst the others float. A portion of the dried solid bulb scraped in warm water and dropped into the ear is an excellent remedy for the earache.

ORDER 100.—HÆMODORACEÆ. 121.

1. ALETRIS, *L.*

farinòsa,[1] *L.* (Colic-root. Dropsy-root.)

Moist open woods; Hand's, P. Clark's, &c. Frequent. July.

ORDER 101.—IRIDACEÆ. 123.

1. IRIS, *L.*

versícolor, *L.* (Wild Flag.)

Margins of ponds, &c. Common. June.

Virgínica, *L.* (Slender Blue Flag.)

Wet meadows; Brandywine, &c. Not common. June.

Pseudacòrus, *L.* (Yellow Flag.)

Muddy banks of Delaware River. Naturalized. June.

2. PARDANTHUS, *Ker.*

Chinénsis, *Ker?* (Blackberry Lily.)

Dry fields; G. Mousley, late I. S. Elliott. Escaped from gardens. June.

3. SISYRINCHIUM, *L.*

Bermudiàna, *L.* (Blue-eyed Grass.)

Low grounds, &c. Common. May.

Bermudiàna, var. mucronàtum, *Gray.*

Wet grassy meadows. Frequent. May.

ORDER 102.—DIOSCOREACEÆ. 124.

1. DIOSCOREA, *Plumier.*

villòsa, *L.* (Wild Yam.)

Woods, thickets, and fencerows. Frequent. June.

ORDER 103.—SMILACEÆ. 125.

SUB-ORDER 1.—EUSMILACEÆ.

1. SMILAX, *Tourn.*

rotundifòlia, *L.* (Green brier.)

Moist thickets. Common. May.

[1] A domestic remedy for dropsy.

(1. SMILAX.[1])

rotundifòlia, var. quadrangulàris, *Gr.*
Moist woods; Brandywine. Frequent. May.

glaùca, *Walt.*
Thickets; Brandywine, &c. Frequent. July.

híspida, *Muhl.*
Rocky hilly woods; Wills' Rock. Not common. June.

herbàcea, *L.* Carrion-flower.)
Moist meadows, thickets, &c. Common. May.

SUB-ORDER 2.—TRILLIACEÆ.

2. TRILLIUM, *L.*

cérnuum, *L.* (Wake-Robin.)
Rich moist woods, Brandywine, &c. Frequent. May.

3. MEDEOLA, *Gronov.*

Virgínica, *L.* (Indian Cucumber.)
Rich damp woods, throughout. Frequent. May.

ORDER 104.—LILIACEÆ. 126.

1. ASPARAGUS, *L.*

officinàlis, *L.* (Garden Asparagus.)
Hedges, &c.; extensively naturalized all along the road to Delaware City. June.

2. POLYGONATUM, *Tourn.*

biflòrum, *Ell.* (Small Solomon's Seal.)
Rocky woods, throughout. Frequent. May.

gigánteum, *Dietrich.* (Solomon's Seal.)
Sandy open woods; Brandywine, &c. Rare. June.

3. SMILACINA, *Desf.*

racemòsa, *Desf.* (Wild Spikenard.)
Moist woods, throughout. Frequent. May.

bifòlia, *Ker.*
Rich rocky woods and wet shaded ground; Will's Rock, J. Peach's, &c. Frequent. May.

4. HEMEROCALLIS, *L.*

fúlva, *L.* (Day Lily.)
Escaped from gardens in many places. July.

[1] The true Sarsaparilla belongs to this genus.

5. Ornithogalum, *Tourn.*
 umbellàtum, *L.* (Ten-o'clock.)
 Dry fields and pastures; J. Tatnall's, &c. Frequent. May. Escaped from gardens.
6. Allium, *L.*
 tricoccum, *Ait.* (Wild Leek.)
 Rich woods; Red Clay Creek, near Speakman's Mill. Rare. July.
 vineàle, *L.* (Garlic.)
 Fields and pastures. Very common. June.
 Canadénse, *Kalm.* (Meadow Garlic.)
 Sandy places along Brandywine, &c. Frequent. May.
7. Lilium, *L.*
 Philadélphicum, *L.* (Wild Red Lily.)
 Hilly woods; Rocky Ridge, &c. Frequent. June.
 Canadénse, *L.* (Canadian Lily.)
 Moist meadows, &c., throughout. June.
 supérbum, *L.* (Turk's-cap Lily.)
 Wet meadows, &c.; J. McCrone's, &c. Frequent. July.
8. Erythronium, *L.*
 Americànum, *Smith.* (Dog's-tooth Violet.)
 Sandy moist woods. Common. April.

Order 105.—MELANTHACEÆ. 127.

Sub-Order 1.—UVULARIÆ.

1. Uvularia, *L.*
 perfoliàta, *L.* (Bellwort.)
 Moist woods, &c., throughout. Frequent. May.
 sessilifòlia, *L.*
 Sandy woods. Frequent. May.

Sub-Order 2.—MELANTHIEÆ.

2. Melanthium, *Gron., L.*
 Virgínicum, *L.*
 Borders of swamps; Deringer's, Thompson's. Not very common. July.

3. Zygadenus, *Michx.*
 leimanthoïdes? *Gray.*
 Swamps; Thompson's. Rare. July.
4. Veratrum, *Tourn.*
 víride, *Ait.* (White Hellebore.)
 Swamps and low ground. Frequent. May.
5. Helonias, *L.*
 bullàta, *L.* (H. latifolia, *Michx.*)
 Swamps; Thompson's, J. Peach's. Rare. May.
6. Chamælirium, *Willd.*
 lùteum, *Gr.* (Devil's Bit. Blazing Star.)
 Moist woods and meadows; J. Lovering's, &c. Frequent. May. (Helonias dioica, *Pursh.*)

Order 106.—JUNCACEÆ. 128.

1. Luzula, *DC.*
 campéstris, *DC.* (Field Rush.)
 Fields and open woods. Common. May.
2. Juncus, *L.*
 effùsus, *L.* (Common Rush.)
 Marshy ground. Common. June.
 setàceus? *Rostk.*
 Wet grounds; Appoquinimink. Rare. July.
 paradóxus, *E. Meyer.*
 Swampy ground, throughout. Frequent. July.
 débilis, *Gray.* (J. polycephalus, *Darlingt.*)
 Wet grounds, throughout. Frequent. June.
 acuminàtus, *Michx.*, in *Gray.*
 Swamps; Thompson's, &c. Frequent. Aug.—Sept.
 marginàtus, *Rostk.*
 Moist sandy woods. Frequent. June.
 ténuis, *Willd.*
 Moist fields, &c. Common. June.
 bufònius, *L.* (Toad Rush.)
 Wet places; roadsides. Common. July.

Order 107.—PONTEDERIACEÆ. 129.

1. Pontederia, *L.*
 cordàta, *L.* (Pickerel-weed.)
 Muddy shores and ditches. Very common. July.

2. Heteranthera, *R. & P.* (Mud Plantain.)
 renifórmis, *R. & P.*
 Muddy rivulets and ponds. Common. July.
3. Schollera, *Schreb.*
 gramínea, *Willd.* (Water Star-grass.)
 Sluggish streams; Brandywine, &c. Frequent. July.

Order 108.—COMMELYNACEÆ. 130.

1. Tradescantia, *L.*
 Virgínica, *L.* (Spiderwort. Bachelor's Hat.)
 Moist woods above Allapokas Creek. Frequent. May.

Order 109.—XYRIDACEÆ. 131.

1. Xyris, *L.*
 bulbòsa, *Kunth.* (Yellow-flowering Rush.)
 Sandy swamps; Lea's, Thompson's, &c. Frequent. Aug.
 Caroliniàna, *Walt.*
 Sandy swamps; Thompson's, Ogletown. Not rare. Aug.

Order 110.—CYPERACEÆ. 133.

1. Cyperus, *L.*
 diándrus, *Torr.*
 Low grounds. Common. Aug.
 strigòsus, *L.* (Bristle-spiked Galingale.)
 Moist rich soil. Common. Aug.
 infléxus? *Muhl.*
 Sandy banks; Brandywine, &c. Not very common. July.
 rotúndus, *L.*, var. Hỳdra? *Gr.* (Nut-grass. Ringworm Grass.)
 Moist meadows; Cherry Island; Lenderman's. Rare elsewhere.
 phymatòdes, *Muhl.* (C. repens, *Ell.*)
 Marshes and meadows; Newport (Dr. Michener). Aug.

(1. Cyperus.)

filicúlmis, *Vahl.*

Sterile soil; Dixon's, &c. Frequent. Aug.

ovulàris, *Torr.* (Mariscus, *Vahl.*)

Dry hills; Brandywine, &c. Frequent. Aug.

retrofráctus, *Torr.*

Brandywine hills (Dr. Michener), B. Hoopes. Aug.

2. Dulichium, *Richard.*

spathàceum, *Pers.* (Sheathed Galingale.)

Swamps throughout the county. Common. July.

3. Eleocharis, *R. Br.*

obtùsa, *Schultes.*

Swamps, &c. Common. June.

palústris, *R. Br.*

Wet meadows; Brandywine, &c. Frequent. June.

ténuis, *Schultes.*

Muddy places. Common. June.

aciculàris, *R. Br.*

Miry places; Brandywine; Col. Davis' (J. H. Brakeley). Frequent. June.

pygmæa, *Torr.*

Moist meadows; Cherry Island. Rare. July.

4. Scirpus, *L.*

planifòlius, *Muhl.*

Moist woods; Davis', &c. Frequent. May.

púngens, *Vahl.* (Chair-makers' Rush.)

Muddy shores. Common. July.

lacústris, *L.* (Bulrush.)

Ditches and muddy shores. Frequent. June.

débilis, *Pursh.*

Low sandy banks. Frequent. Aug.

marítimus, *L.* (Sea Club-Rush.)

Muddy shores of Christiana (B. Hoopes). Not common. June.

fluviátilis, *Gray.* (River Club-Rush.)

Wilmington marshes (Dr. Michener). July.

sylváticus, L., var. atróvirens, *Gr.*

Wet places. Frequent. June.

polyphýllus, *Vahl.*

Swamps and thickets. Common. July.

(4. Scirpus.)

lineàtus, *Michx.*

Swamps, &c.; Thompson's. Frequent. July.

Eriόphorum, *Michx.* (Wool-Grass.)

Wet places. Frequent. July.

5. Eriophorum, *L.*

Virgínicum, *L.* (Cotton-Grass.)

Swamps, throughout. Frequent. July.

polystàchyon, *L.*

Bogs; Thompson's, &c. Not common. May.

6. Fimbristylis, *Vahl.*

spadìcea, *Vahl.*

Marshy places near tidewater. Not common. July.

autumnàlis, *R. & S.*

Low grounds, Brandywine, &c. Frequent. Aug.

7. Fuirena, *Rottböl.*

squarròsa, *Michx.* (Umbrella-Grass.)

Sandy swamps; Thompson's. Frequent. Aug.

squarròsa, var. pùmila. *Torr.*

Gravelly swamps; Ogletown. Frequent. Aug.

8. Rhynchospora, *Vahl.*

cymòsa, *Nutt.* (Bog-Rush.)

Wet places, throughout. Common. July.

álba, *Vahl.*

Sandy swamps; Ogletown, &c. Frequent. July.

glomeràta, *Vahl.*

Bogs; Thompson's, &c. Not common. June.

9. Scleria, *L.*

triglomeràta, *Michx.* (Nut-Rush.)

Moist low grounds. Frequent. June.

reticulàris? *Michx.*

Sandy swamps near Newark. Not common. Aug.

10. Carex, *L.* (Sedge.)

polytrichoìdes, *Muhl.*

Low grounds throughout. Frequent. June.

bromoìdes, *Schk.*

Swamps, &c. Frequent. May.

vulpinoídea, *Michx.* (C. multiflora, *Muhl.*)

Wet meadows. Rather common. June.

(10. CAREX.)

stipàta, *Muhl.* (C. vulpinoidea, *Torr.*)
Wet low grounds. Common. June.

cephalóphora, *Muhl.*
Open woods, &c.; throughout. Frequent. June.

Muhlenbérgii, *Schk.*
Hills and fields; Brandywine. Not very common. May.

ròsea, *Schk.*
Moist woods and meadows. Common. June.

retrofléxa, *Muhl.*
Similar situations. Frequent. May.

stellulàta, *Good.*
Low swampy ground. Common. June.

stellulàta, var. scirpoìdes, *Carey* in *Gray.*
Same situations. Frequent. June.

scopària, *Schk.*
Swampy meadows. Common. June.

lagopodioìdes, *Schk.*
Wet meadows. Common. June.

lagopodioìdes, var. cristàta, *Carey.*
Borders of ponds; Harmony Mills. Not common. June.

festucàcea, *Schk.*
Fields and woods. Frequent. June.

stramínea, *Schk.*
Low grounds. Frequent. June.

stricta, *Lam.* (C. acuta, *Muhl.*)
Meadows and swamps, forming tussocks or hassocks. Very common. May.

crinìta, *Lam.*
Wet meadows and banks of streams. Frequent. June.

limòsa, *L.*
Swamps and bogs; Thompson's. Not common. June.

tetánica, *Schk.* (C. conoìdea, *Gr. Gram.*)
Sandy banks; Brandywine. Not common. May.

granulàris, *Muhl.*
Wet meadows. Frequent. June.

(10. CAREX.)

conoìdea, *Schk.* (C. tetanica, *S. & T.*)
Moist fields and margins of ponds; Harmony Mills. Not common. June.

grìsea, *Wahl.* (C. laxiflora, *Schk.*)
Wet woods and swamps. Frequent. June.

Davísii, *Schw. & Torr.* (C. Torreyana, *Dew.*)
Low grounds, along streams. Frequent. May.

gracíllima, *Schw.*
Low grounds, &c. Frequent. June.

viréscens, *Muhl.*
Rocky shaded hills. Frequent. June.

trìceps, *Michx.* (C. hirsuta, *Willd.*)
Borders of woods, &c. Frequent. June.

platyphýlla, *Carey.*
Shaded hillsides. Frequent. June.

digitàlis, *Willd.* (C. oligocárpa, *S. & T.*)
Dry woods; Brandywine. Not common. June.

laxiflòra, *Lam.* (C. ánceps, *Willd.*)
Hilly woods. Frequent. April.

Pennsylvánica, *Lam.* (C. marginata, *Muhl.*)
Dry shaded hills. Frequent. April.

vària, *Muhl.*
Similar places. Not so common. April.

pubéscens, *Muhl.*
Moist woods; Brandywine. Frequent. June.

miliàcea, *Muhl.*
Low grounds. Frequent. May.

débilis, *Michx.* (C. flexuosa, *Muhl.*)
Moist shaded grounds, &c. Frequent. June.

lanuginòsa, *Michx.* (C. pellita, *Muhl.*)
Moist grounds; Davis'? (J. H. Brakeley.) Not common. May.

vestìta, *Willd.*
Borders of ponds, &c.; Harmony Mills. Not common. June.

hystricìna, *Willd.*
Wet meadows. Frequent. June.

tentaculàta, *Muhl.*
Swamps throughout. Common. June.

(10. CAREX.)

intuméscens, *Rudge.* (C. folliculàta, *Schk.*)
Wet grounds. Frequent. June.

folliculàta, *L.* (C. xanthophysa, *Wahl.*)
Swamps, &c.; Thompson's. Not common. June.

lupulìna, *Muhl.*
Swamps and muddy places. Frequent. June.

squarròsa, *L.*
Moist meadows, &c. Frequent. June.

Schweinítzii, *Dew.*
Swamps; Thompson's, &c. (J. H. Brakeley.) Not common.

monìle? *Tuckerman.* (C. vesicària, loc. cat.)
Wet grounds; Brandywine. Not common. May.

longiróstris? *Torr.*
Detected by J. H. Brakeley, perhaps on the rocky hills along Brandywine.

ORDER 111.—GRAMINEÆ. 134.

1. LEERSIA, *Solander.*

oryzoìdes, *Swartz.* (Rice Cut-Grass.)
Wet open grounds. Frequent. Aug.

Virgínica, *Willd.* (White Grass.)
Wet shaded places. Common. Aug.

2. ZIZANIA, *Gronov.*

aquática,[1] *L.* (Indian Rice. Reed.)
Ditches and muddy banks of streams. Very common. Aug.

3. ALOPECURUS, *L.*

geniculàtus, *L.* (Floating Foxtail.)
Wilmington wharves; Bush's. Introduced. Aug.

4. PHLEUM, *L.*

praténse, *L.* (Timothy.)
Fields, &c. Common. June. Native of Europe.

5. VILFA, *Adans.*

vaginæflòra, *Torr.*
Dry fields and roadsides. Frequent. Aug.

[1] The seed of the plant forms the chief food of the reed bird in this latitude during the autumn months.

6. AGROSTIS, *L.*

perénnans, *Tuck.*

Open woodlands, &c. Frequent. July.

scàbra, *Willd.*

Sandy fields and roadsides. Frequent. June.

vulgàris, *With.* (Red-top Herd's-Grass.)

Moist meadows. Common. July. Nat. of Europe.

álba, *L.* (White Bent-Grass.)

With the last. Frequent. July. Native of Europe.

7. CINNA, *L.*

arundinàcea, *L.* (Wood Reed-Grass.)

Moist shaded places. Frequent. Aug.

8. MUHLENBERGIA, *Schreb.*

sobolífera, *Gray.*

Open rocky woods; Brandywine. Frequent. Aug.

Mexicàna, *Trin.* (Agrostis, *L.*)

Low grounds. Common. Aug.

sylvática, *T. & G.*

Moist rocky woods. Frequent. Sept.

Willdenòvii, *Trin.*

Similar situations. Frequent. Aug.

diffùsa, *Schr.* (Drop-seed Grass.)

Dry open woods and pastures. Common. Aug.

capillàris, *Kunth.* (Hair-Grass.)

Sandy roadsides, &c.; Andrews'. Frequent. Aug.

9. BRACHYELYTRUM, *Beauv.* (Trichócloa, *DC.*)

aristàtum, *Beauv.* (Muhlenbergia erecta, *Schr.*)

Rocky woods; Rocky Ridge, &c. Frequent. June.

10. CALAMAGROSTIS, *Adans.*

coarctàta, *Torr.*

Wet woods, &c.; Brandywine. Frequent. Aug.

11. ORYZOPSIS, *Michx.*

melanocárpa, *Muhl.* (Mountain Rice.)

Rocky woods; Wills' Rock. Rare. Aug.

12. STIPA,[1] *L.*

avenàcea, *L.* (Black Oat-Grass.)

Open sandy woods; Rattlesnake Run. Rare. July.

[1] This plant, though rare on this side of the Delaware, is abundant in New Jersey.

13. ARISTIDA, *L.*

dichòtoma, *Michx.* (Poverty Grass.)

Sterile fields, &c. Common. Aug.

grácilis, *Ell.* (Slender Poverty Grass.)

Sterile fields and banks; Dixon's, &c. Frequent. Aug.

14. SPARTINA, *Schr.*

cynosuroìdes, *Willd.* (Cord Grass.)

Wet meadows, &c.; Cherry Island. Rare. Aug.

polystàchya, *Willd.* (Reed Grass.)

Muddy banks of Christiana Creek, near the light-house. Rare. Aug.

júncea, *Willd.* (Rush Salt-Grass.)

Sandy shores of Delaware Bay; Collins' Beach. Rare elsewhere. July.

15. ELEUSINE, *Gærtn.*

Indica, *Gærtn.* (Dog's-tail Grass.)

Yards and waste places. Common. Aug. Native of India.

16. TRICUSPIS, *Beauv.*

seslerioìdes, *Torr.* (Tall Red-top.)

Open sandy woods and fields. Frequent. Aug.

?purpùrea, *Gr.* (Sand Grass.)

Found by Dr. Michener in Kent County, and probably grows in Appoquinimink.

17. DACTYLIS, *L.*

glomeràta, *L.* (Orchard Grass.)

Shaded fields, &c. Frequent. June. Native of Europe.

18. EATONIA, *Raf.* (Kœlèria, *Torr.* Reboùlea, *Kunth.*)

obtusàta, *Gray.* (K. truncata, *Torr.*)

Dry open woods; Brandywine, &c. Frequent. June.

Pennsylvánica, *Gray.*

Moist woods. Frequent. May.

19. GLYCERIA, *R. Br.*

Canadénsis? *Trin.* (Rattlesnake Grass.)

Swamps, &c.; Thompson's. Not common. July.

nervàta, *Trin.* (Poa nervàta, *Willd.* Poa Canadensis, *Beauv.*)

Wet meadows. Common. June.

(19. Glyceria.)

pállida, *Trin.* (P. pállida, and dentata, *Torr.*)
Wet meadows, in water. Frequent. July.

flùitans, *R. Br.* (Manna Grass.)
Shallow ponds; Brandywine, &c. Frequent. June.

acutiflòra, *Torr.*
Swampy places; Cherry Island. Rare. June.

20. Poa, *L.*

ánnua, *L.* (Early Meadow-Grass.)
Waste places, &c. Common. April.

brevifòlia, *Muhl.* (P. pungens, *Nutt.*)
Hilly open woods; Brandywine. Not common. April.

triviàlis, *L.* (Rough Meadow-Grass.)
Low meadows. Frequent. June. Nat. of Europe.

praténsis, *L.* (Green Grass.)
Fields and meadows. Common. May.

compréssa, *L.* (Blue Grass.)
Dry gravelly fields. Common. June.

21. Eragrostis, *Beauv.*

poæòides, *Beauv.*, var. megastàchya, *Gr.*
Gardens and roadsides. Common. Aug. Native of Europe.

pilòsa, *Beauv.* (Poa pilosa, *L.*)
Sandy roadsides, &c. Frequent. July. Native of Europe.

capillàris, *Nees.*
Sandy fields, &c. Frequent. Aug.

pectinàcea, *Gray.* (Poa hirsuta, *Am. Anth.*)
Sandy roadsides, &c. Frequent. Aug.

22. Festuca, *L.*

tenélla, *Willd.* (Little Fescue Grass.)
Dry sterile soil. Frequent. June.

elàtior, *L.* (Tall Fescue Grass.)
Moist meadows, &c. Frequent. June. Nat. of Europe.

nùtans, *Willd.* (Nodding Fescue.)
Moist open woods. Frequent. June.

23. Bromus, *L.*

secalìnus, *L.* (Chess. Cheat.)
Wheat fields. Common. June. Native of Europe.

(23. Bromus.)

móllis, *L.* (Soft Chess.)

Fields with Timothy. Frequent. June. Native of Europe.

ciliàtus, *L.*, var. púrgans, *Gr.*

Sandy open woods; Brandywine. Frequent. July.

24. Uniola, *L.*

latifòlia, *Michx.*

Sandy open woods near Brandywine Bridge. Frequent. Aug.

grácilis, *Michx.*

Moist sandy places; Thompson's. Frequent. Aug.

25. Phragmites, *Trin.* (Arundo, *L.*)

commùnis, *Trin.* (Reed Grass.)

Muddy shores of Christiana Creek, near the light-house. Aug.

26. Lolium, *L.*

perénne, *L.* (Darnel. Rye Grass.)

Moist meadows, &c. Frequent. June. Native of Europe.

temulentum, *L.*

Field's, &c.; Noxentown Pond. Rare. June.

27. Triticum,[1] *L.*

rèpens, *L.* (Couch Grass. Quitch Grass.)

Cultivated grounds and pastures. Common. July. Native of Europe.

28. Elymus, *L.*

Virgínicus, *L.* (Lyme Grass.)

Rocky banks; Rocky Ridge, &c. Frequent. July.

Canadénsis, *L.* (Wild Rye.)

Sandy banks of streams. Frequent. Aug.

29. Gymnostichum, *Schr.* (Elymus, *L.*)

Hýstrix, *Schr.* (Bottle-brush Grass.

Moist sandy woods. Frequent. July.

[1] The wheat plant belongs to this genus.

Secale cereale, the cultivated rye, is spontaneous for some years in fields where it has been sown. The ergot or spurred rye is a diseased form, and is sometimes used in medicine.

30. AIRA, *L.*

flexuòsa, *L.* (Hair Grass.)

Dry banks. Frequent. June.

31. DANTHONIA, *DC.*

spicàta, *Beauv.*

Dry sterile soil. Common. June.

32. TRISETUM, *Pesr.*

palústre, *Torr.*

Low meadows. Frequent. June.

33. ARRHENATHERUM, *Beauv.*

avenàceum, *Beauv.* (Oat Grass.)

Fields, &c. Frequent. May. Native of Europe.

34. HOLCUS, *L.*

lanàtus, *L.* (Velvet Grass.)

Meadows and moist banks. Frequent. June. Native of Europe.

35. ANTHOXANTHUM, *L.*

odoràtum, *L.* (Sweet-scented Vernal Grass.)

Fields and meadows. Common. May. Native of Europe.

36. PHALARIS, *L.*

arundinàcea, *L.*

Wet meadows, &c.; Fern Hook. Frequent. June.

Canariénsis, *L.* (Canary Grass.)

Sometimes found about yards. July. Nat. of Europe.

37. PASPALUM, *L.*

fluitans,[1] *Kunth.*

In an exsiccated pond; J. W. Andrews'. Rare.

setàceum, *Michx.*

Sandy roadsides, &c. Frequent. Aug.

læve, *Michx.*

Moist meadows. Common. Aug.

38. PANICUM, *L.* (Sub-genus Digitària, *Scop.*)

filifórme, *L.*

Sandy roadsides, &c. Frequent. Aug.

glàbrum, *Gaudin.*

Cultivated grounds, &c. Common. Aug. Native of Europe.

[1] A native of the Southern States, but evidently indigenous in the locality named, which has been for a number of years submersed.

(38. PANICUM.)

sanguinàle, *L.*

Similar places. Common. July. Nat. of Europe.

ánceps, *Michx.* (Sub-genus Panicum proper.)

Wet meadows and fields. Frequent. July.

agrostioìdes, *Spreng.*

Borders of swamps. Common. July.

prolíferum, *Lam.*

Low grounds, &c. Frequent. Sept.

capillàre, *L.*

Cornfields and light soil. Common. Aug.

virgàtum, *L.*

Alluvial soil; Cherry Island. Frequent. Aug.

latifòlium, *L.*

Moist shaded places. Frequent. June.

clandestìnum, *L.*

Low grounds; Dixon's, &c. Frequent. July.

microcárpon, *Muhl.*

Moist woodlands. Frequent. July.

víscidum? *Ell.*

Damp sandy soil; Brandywine. Frequent. July.

dichótomum, *L.*

Dry hilly woods. Common. June.

dichótomum, var. pubescens, *Gr.*

Moist woods. Frequent. June.

dichótomum, var. nitidum, *Gr.*

Rocky woods. Frequent. June.

depauperàtum, *Muhl.*

Dry hills; Dixon's, Brown's, &c. Frequent. May.

verrucòsum, *Muhl.*

Borders of swamps; Thompson's, McCrone's, &c. Not common. July.

Crus-gálli, *L.* (Barnyard Grass. Cock's-foot.)

Barnyards and wet places. Common. Aug. Native of Europe.

híspidum,[1] *Muhl.* (Fox-tail Grass.)

Muddy shores of Appoquinimink and Blackbird Creeks; rare elsewhere. Aug.

[1] Surely this is distinct from the last?

39. SETARIA, *Beauv.*

verticillàta, *Beauv.*

Gardens and waste places. Common. July. Native of Europe.

glaùca, *Beauv.* (Fall Grass.)

Stubble-fields and meadows. Common. Aug. Native of Europe.

víridis, *Beauv.* (Green Foxtail.)

Cultivated lots, &c. Frequent. July. Native of Europe.

40. CENCHRUS, *L.*

tribuloìdes, *L.* (Hedgehog Grass. Bur-Grass.)

Wharves at New Castle; Collins' Beach, &c. Not common. Aug.

41. TRIPSACUM, *L.* (Gama Grass. Sesame Grass.)

dactyloìdes, *L.*, var. monostàchyum, *Gr.*

Rocky hillsides above Allapokas. Rare. July.

42. ERIANTHUS, *Michx.*

alopecuroìdes, *Ell.*

Swamps; Newark, &c. Rare. Sept.

43. ANDROPOGON, *L.*

furcàtus, *Muhl.*

Sandy soil near lower dam, Brandywine. Frequent. Aug.

scopàrius, *Michx.* (Indian Grass.)

Sterile fields. Common. Aug.

Virgínicus, *L.*

Sterile fields. Frequent. Sept.

macroùrus, *Michx.*

Low sterile soil. Frequent. Sept.

44. SORGHUM,[1] *Pers.* (Andropògon, *L.*)

nùtans, *Gray.*

Old sterile fields, &c. Frequent. Aug.

[1] The common broom corn and the Chinese sugar-cane are plants belonging to this genus.

Zea mays, *Linn.*, is the common Indian corn.

SERIES II.

CRYPTOGAMOUS, OR FLOWERLESS PLANTS.

Class III. Acrogens.

Order 112.—EQUISETACEÆ. 135.

1. Equisetum, *L.*
 arvense, *L.*
 Sandy places along Brandywine. Not common. April.
 sylvaticum, *L.* (Limestone Weed.)
 Limestone debris; Jackson's lime quarries. Rare elsewhere.
 hyemàle, *L.* (Scouring Rush.)
 Wet banks; Noxentown pond. Detected by W. M. Canby. June, 1860.

Order 113.—FILICES. 136.

Sub-Order 1.—POLYPODINEÆ.

1. Polypodium, *L.*
 vulgàre, *L.*
 Rocky woods and banks. Common. July.
 hexagonópterum, *Michx.*
 Moist woods. Frequent. July.
2. Pteris, *L.*
 aquilìna, *L.* (Brake. Bracken.)
 Moist woods, &c. Frequent. July.
3. Adiantum, *L.*
 pedàtum, *L.* (Maidenhair.)
 Rocky woods. Common. July.
4. Woodwardia, *Smith.*
 angustifòlia, *Smith.*
 Bogs; Thompson's, &c. Rare. Aug.

(4. Woodwardia.)

Virgínica, *Willd.*

Cedar swamp, Appoquinimink. Rare. July.

5. Camptosorus, *Link.* (Asplenium, *L.*)

rhizophýllus, *Link.* (Walking Leaf.)

Shaded rocks; Brandywine. Rare. Abundant near Speakman's mill, on Red Clay Creek. July.

6. Asplenium, *L.*

Trichómanes, *L.*

Shaded rocks and banks. Frequent. July.

ebèneum, *Ait.*

Rocky woods and shaded banks. Frequent. July.

angustifòlium? *Michx.*

Wet shaded hillsides; Giant's Cave. Rare.

thelypteroìdes, *Michx.*

Moist rich woods. Frequent. July.

Filix-fœmina, *R. Br.* (Aspídium asplenoides.)

Rich woods. Frequent. July.

7. Dicksonia, *L'Her.*

punctilóbula, *Hook.* (D. pilosiuscula, *Willd.*)

Moist open woods. Frequent. July.

8. Woodsia, *R. Br.*

obtùsa, *Torr.* (W. Perriniana, *Hook.*)

On rocks, &c. Frequent. July.

Ilvensis, *R. Br.*

On rocks. Uncommon. July.

9. Aspidium, *Swartz.*

Thelýpteris, *Swartz.*

Swamps, &c. Common. July.

Noveboracénse, *Willd.*

Swamps, &c. Common. July.

cristàtum, *Swartz.* (A. Lancastriense, *Sw.*)

Rich moist woods. Frequent. July.

Goldiànum, *Hook.*

Rich moist woods. Frequent. Sept.

marginàle, *Swartz.*

Rocky shaded hillsides. Common. July.

acrostichoìdes, *Swartz.*

Rocky woods. Common. July.

(9. Aspidium.)

acrostichoìdes, var. incìsum, *Gr.* (Polýstichum, *Roth.*)

Moist rocky woods; Rattlesnake Run; Giant's Cave. Not common. July.

10. Onoclea, *L.*

sensíbilis, *L.*

Moist open woods and meadows. Frequent. July.

Sub-Order 2.—OSMUNDINEÆ.

11. Osmunda, *L.*

regàlis, *L.*, var. spectábilis, *Gr.*

Moist meadows, &c. Frequent. July.

Claytoniàna, *L.*

Low grounds. Frequent. July.

cinnamòmea, *L.* (Cinnamon Fern.)

Swampy grounds. Frequent. July.

Sub-Order 3.—OPHIOGLOSSEÆ.

12. Botrychium, *Swartz.*

lunarioìdes, *Swartz.* (Moonwort.)

Low sandy soil; Brandywine, &c. Frequent. Aug.

lunarioìdes, var. disséctum, *Gray.*

With the last, but not so common. July.

Virgínicum, *Swartz.*

Rich sandy woods. Frequent. July.

13. Ophioglossum, *L.*

vulgàtum, *L.* (Adder's Tongue.)

Rich wet woods; J. Tatnall's. Frequent. June.

Order 114.—LYCOPODIACEÆ. 137.

1. Lycopodium, *L.*

lucídulum, *Michx.*

Moist cold woods. Frequent. July.

alopecuroìdes, *L.*

Swamps; Ogletown; Thompson's. Not common. July.

dendroídeum, *Michx.* (Ground Pine.)

Moist clay woods; "Silk farm," &c. Frequent. July.

(1. Lycopodium.)

clavàtum, *L.* (Club-Moss.)

Moist woods; McCrone's, &c. Frequent. July.

complanàtum, *L.* (Ground Ivy.)

Abundant on the "Silk farm," and found also near Stanton, J. Webb's; and elsewhere. Sept.

2. Selaginella, *Beauv.*

rupéstris, *Spreng.*

Exposed rocks; Rocky Ridge. Rare. July.

àpus, *Spreng.*

Moist shaded places. Frequent. July.

Order 115.—HYDROPTERIDES. 138.

1. Isoetes, *L.*

ripària, *Engelm.*

Shallow ponds; B. Hoopes. Rare.

Engelmánni, *Braun.*

Muddy places; Thompson's. Rare. Aug.

The following plants may probably be found in the county:—

Clematis viorna. Rich soil. May—Aug.
Ranunculus Pennsylvanicus. Wet places. June.
Trollius laxus. Deep swamps. May.
Dicentra Canadensis. Rich woods. April.
Arabis hirsuta. Rocks. May.
Sinapis alba. Fields.
Drosera filiformis. Wet sand. Aug.
Hypericum adpressum. Moist places. July.
angulosum. Pine barrens. July.
Alsine Michauxii. Serpentine. July.
Stellaria pubera. Shaded rocks. May.
Geranium Robertianum. Moist woods. June.
Zanthoxylum Americanum. Rocky woods. May.
Polygala polygama. Dry sandy soil. July.
Desmodium strictum. Pine woods. Aug.
Canadense. Dry rich woods. Aug.
Vicia Cracca. Woods. July.
Caroliniana. River banks. May.
Prunus pumila. Rocky banks. May.
Virginiana. River banks. May.
Geum rivale. Wet meadows. May.
strictum. Wet meadows. July.
Cratægus parvifolia. Sandy soil. May.
Epilobium angustifolium. Low grounds. July.
Œnothera sinuata. Sandy fields. June.
Gaura biennis. Dry banks. Aug.
Ludwigia sphærocarpa. Swamps. Aug.
Myriophyllum spicatum. Deep water. July.
ambiguum. Ponds, &c. July.
Opuntia vulgaris. Sandy fields. June.
Hydrocotyle interrupta. Swamps. July.
Zizia integerrima. Rocky hillsides. May.
Cicuta bulbifera. Swamps. Aug.
Cornus circinata. Copses. June.

Oldenlandia glomerata. Wet places. May.
Fedia radiata. Low grounds. June.
Liatris squarrosa. Dry soil. Sept.
Kuhnia eupatorioides. Dry soil. Sept.
Boltonia glastifolia. Rich moist soil. Sept.
Solidago squarrosa. Rocky hills. Aug.
speciosa. Copses. Aug.
tenuifolia. Sandy fields. Sept.
puberula. Sandy soil. Sept.
Artemisia vulgaris. Waste places. Aug.
Campanula Americana. Rich soil. July.
Pyrola secunda. Rich woods. July.
Utricularia striata. Swamps. July.
purpurea. Ponds. Aug.
Pentstemon pubescens. Dry banks. June.
Veronica Anagallis. Brooks. June.
scutellata. Bogs. June.
Verbena angustifolia. Dry soil. July.
Thymus serpyllum. Old fields. June.
Monarda punctata. Sandy fields. Aug.
Scutellaria nervosa. Moist thickets. June.
Galeopsis Tetrahit. Waste places. Aug.
Lycopsis arvensis. Sandy fields.
Cuscuta epilinum. Flax fields. June.
Limnanthemum lacunosum. Ponds. June.
Amarantus retroflexus. Waste places.
Polygonum nodosum. Moist places. Aug.
Pinus rigida. Sterile soil. May.
Lemna trisulca. Ponds.
Microstylis ophioglossoides. Damp woods. July.
Cypripedium parviflorum. Rich woods. May.
Amianthium muscætoxicum. Open woods. June.
Carex sparganioides. Low grounds.
scabrata. Wet meadows.
subulata. Cedar swamps.
monile. Bogs.
fœna. Brackish marshes.
Shortiana. Marshes.
lacustris. Swamps.
trichocarpa. Marshes.

(Carex.)
comosa. Wet places.
bullata. Wet meadows.
Vilfa aspera. Sandy fields. Sept.
Sporobolus junceus. Dry soil. Aug.
Calamagrostis Canadensis. Wet grounds. July.
Oryzopsis asperifolia. Shaded hillsides. May.
Spartina stricta. Salt marshes. Aug.
Bouteloua curtipendula. Serpentine. Aug.
Poa serotina. Wet meadows. July.
Eragrostis reptans. Gravelly river banks. Aug.
Panicum pauciflorum. Wet meadows. June.
Equisetum limosum. Shallow water.
Allosorus atropurpureus. Rocks.
Cheilanthes vestita. Shaded rocks.
Cystopteris bulbifera. Shaded rocks.
Aspidium spinulosum. Woods.
Azolla Caroliniana. Pools.
And perhaps many others.

Students and others will find in the following works, by Prof. Asa Gray, a most efficient aid to the study of Botany, viz:—

"How Plants Grow."
"Lessons in Botany and Vegetable Physiology."
"Manual of Botany."
"Structural and Systematic Botany."

The following isolated Orders of Cryptogamia have been furnished by C. Febiger, an enthusiastic Microscopist of this place, as having *thus far* been detected in the county.

Class Cryptogamia.

Sub-Class *Algæ.*

Natural Order DIATOMACEÆ.

Epithemia ocellata, *Kutz.*
turgida, *Smith.*
granulata, *Kutz.*
alpestris, *Smith.*
proboscidea, *Kutz.*
Musculus, *Kutz.*
Westermanii, *Kutz.*
rupestris, *Smith.*
ventricosa, *Kutz.*
Eunotia Arcus, *Smith.*
triodon, *Ehr.*
tetraodon, *Ehr.*
Cymbella Ehrenbergii, *Kutz.*
cuspidata, *Kutz.*
maculata, *Kutz.*
Helvetica, *Kutz.*
Scotica, *Smith.*
Amphora ovalis, *Kutz.*
acutiuscula, *Kutz.*
Cocconeis Placentula, *Ehr.*
scutellum, *Ehr.*
Coscinodiscus minor, *Ehr.*
radiatus, *Ehr.*
Actinocyclus undulatus, *Kutz.*
Triceratium Favus, *Ehr.*
alternans, *Bail.*
Cyclotella Kutzingiana *Thw.*
Rotula, *Kutz.*

CAMPYLODISCUS spiralis, *Smith.*
cribrosus, *Smith.*
SURIRELLA biseriata, *Bréb.*
linearis, *Smith.*
constricta, *Smith.*
splendida, *Kutz.*
nobilis, *Smith.*
striatula, *Turp.*
Gemma, *Ehr.*
Craticula, *Ehr.*
Brightwellii, *Smith.*
ovata, *Kutz.*
pinnata, *Smith.*
minuta, *Bréb.*
apiculata, *Smith.*
limosa, *Bail.*
TRYBLIONELLA marginata, *Smith.*
acuminata, *Smith.*
CYMATOPLEURA elliptica, *Smith.*
NITZSCHIA sigmoidea, *Smith.*
obtusa, *Smith.*
scalaris, *Smith.*
linearis, *Smith.*
Amphioxys, *Smith.*
rivax, *Smith.*
dubia, *Smith.*
plana, *Smith.*
Closterium, *Smith.*
reversa, *Smith.*
AMPHIPRORA paludosa, *Smith.*
vitrea, *Smith.*
vitrea β, *Greg.*
constricta, *Ehr.*
NAVICULA rhomboides, *Ehr.*
Crassinervia, *Bréb.*
cuspidata, *Kutz.*
rhynchocephala, *Kutz.*
elliptica, *Smith.*
ovalis, *Smith.*
Westii, *Smith.*

(Navicula.)
patula, *Smith.*
obtusa, *Smith.*
affinis, *Ehr.*
inflata, *Kutz.*
gibberula, *Kutz.*
amphirhynchus, *Ehr.*
ambigua, *Ehr.*
punctulata, *Smith.*
pusilla, *Smith.*
tumida, *Smith.*
dicephala, *Kutz.*
cryptocephala, *Kutz.*
varians, *Greg.*
firma, *Kutz.*
firma β, *Kutz.*
granulata, *Bail.*
Hennedyii, *Smith.*
Esox, *Kutz.*
pygmæa, *Kutz.*
dilitata, *Ehr.*
rostrata, *Ehr.*
crassa, *Greg.*
birostrata, *Greg.*
lacustris β, *Greg.*
trinodis, *Smith.*
Pinnularia nobilis, *Ehr.*
major, *Smith.*
viridis, *Smith.*
lata, *Smith.*
peregrina, *Ehr.*
radiosa, *Smith.*
gracilis, *Ehr.*
stauroneiformis, *Smith.*
gibba, *Ehr.*
acrosphæria, *Smith.*
mesolepta, *Ehr.*
interrupta, *Smith.*
Stauroneis Phœnicenteron, *Ehr.*
gracilis, *Ehr.*

(Stauroneis.)
acuta, *Smith.*
salina, *Smith.*
anceps, *Ehr.*
linearis, *Ehr.*
acuta, *Smith.*
amphicephala, *Kutz.*
Pleurosigma obscurum, *Smith.*
attenuatum, *Smith.*
lacustre, *Smith.*
Spencerii, *Smith.*
Fasciola, *Smith.*
macrum, *Smith.*
Synedra lunaris, *Ehr.*
biceps, *Smith.*
pulchella, *Kutz.*
gracilis, *Kutz.*
acicularis, *Smith.*
radians, *Smith.*
Ulna, *Ehr.*
Cocconema lanceolatum, *Ehr.*
Cistula, *Ehr.*
Doryphora Amphiceros, *Kutz.*
Boeckii, *Smith.*
Gomphonema geminatum, *Ag.*
constrictum, *Ehr.*
acuminatum, *Ehr.*
cristatum, *Ralfs.*
dichotomum, *Kutz.*
capitatum, *Ehr.*
intricatum, *Kutz.*
Meridion circulare, *Ag.*
constrictum, *Ralfs.*
Bacillaria paradoxa, *Gmel.*
Hemantidium pectinale, *Kutz.*
bidens, *Ehr.*
gracile, *Ehr.*
majus, *Smith.*
Odontidium mutabile, *Smith.*
Tabellaria, *Smith.*

(Odontidium.)
Harrisonii, *Smith.*
Fragilaria capucina, *Desm.*
Achnanthes subsessilis, *Kutz.*
Achnanthidium coarctatum, *Bréb.*
Tabellaria flocculosa, *Kutz.*
fenestrata, *Kutz.*
Amphitetras antediluviana, *Ehr.*
Biddulphia Rhombus, *Smith.*
granulata, *Roper.*
Podosira hormoides, *Kutz.*
Melosira varians, *Ag.*
distans, *Kutz.*
Orthosira marina, *Smith.*
punctata, *Smith.*
Encyonema cæspitosum, *Kutz.*
Colletonema eximium, *Thw.*
vulgare, *Thw.*

Natural Order DESMIDIEÆ.

Hyalotheca dissiliens, *Smyth.*
Didymoprium Borreri, *Ralfs.*
Grevillii, *Kutz.*
Desmidium quadrangulatum, *Ralfs.*
Swartzii, *Ag.*
Aptogonum Desmidium, *Ehr.*
Sphærozosma excavatum, *Ralfs.*
Micrasterias furcata, *Ag.*
pinnatifida, *Kutz.*
oscitans, *Ralfs.*
crenata, *Bréb.*
denticulata, *Bréb.*
rotata, *Grev.*
papillifera, *Bréb.*
morsa, *Ralfs.*
radiosa, *Ag.*
Euastrum sublobatum, *Bréb.*
ansatum, *Ehr.*
oblongum, *Grev.*

(Euastrum.)
gemmatum, *Bréb.*
crassum, *Bréb.*
binale, *Turp.*
verrucosum, *Ehr.*
Cosmarium tinctum, *Ralfs.*
moniliforme, *Turp.*
cristatum, *Ralfs.*
bioculatum, *Bréb.*
pyramidatum, *Bréb.*
ovale, *Ralfs.*
crenatum, *Ralfs.*
margaritiferum, *Turp.*
cucurbita, *Bréb.*
Xanthidium cristatum, *Bréb.*
fasciculatum, *Ehr.*
Arthrodesmus convergens, *Ehr.*
Incus, *Bréb.*
Staurastrum tricorne, *Bréb.*
gracile, *Ralfs.*
dejectum, *Bréb.*
Arachne, *Ralfs.*
tetracerum, *Kutz.*
hirsutum, *Ehr.*
dilatatum, *Ehr.*
margaritaceum, *Ehr.*
Didymocladon furcigerus, *Bréb.*
Tetmemorus granulatus, *Bréb.*
lævis, *Kutz.*
Penium truncatum, *Bréb.*
margaritaceum, *Ehr.*
cylindrus, *Ehr.*
interruptum, *Bréb.*
Docidium nodulosum, *Bréb.*
baculum, *Bréb.*
Ehrenbergii, *Ralfs.*
Closterium Jenneri, *Ralfs.*
Dianæ, *Ehr.*
Lunula, *Muller.*
juncidum, *Ralfs.*

(Closterium.)
lineatum, *Ehr.*
rostratum, *Ehr.*
decussatum, *Kutz.*
Leibleinii, *Kutz.*
cornu, *Ehr.*
acerosum, *Schr.*
intermedium, *Ralfs.*
angustatum, *Kutz.*
acutum, *Syngbye.*
striolatum, *Ehr.*
Spirotænia condensata, *Bréb.*
obscura, *Ralfs.*
Ankistrodesmus falcatus, *Corda.*
Pediastrum Heptactis, *Ehr.*
Tetras, *Ehr.*
Scenedesmus quadricauda, *Turp.*
acutus, *Meyen.*

ADDENDA.

Page 17, next after Spergularia rùbra, read—

9.* SPERGULA, *L.*

arvénsis, *L.* (Spurrey.)

Sandy fields; Townsend. Rare. W. M. Canby, June, 1860.

Page 20, next after Rhus, read—

typhìna, *L.* (Staghorn Sumach.)

Dry banks; Noxentown Pond. Rare. June, 1860.

Page 51, next after Ilysanthes gratioloides, read—

7.* HEMIANTHUS, *Nutt.*

micranthemoìdes, *Nutt.*

Low muddy banks; Brandywine Creek, between high and low-water mark. Rare. July, 1860.

Page 72, under Sparganium, and before simplex, read—

ramòsum, *Huds.*

Muddy banks; Shellpot Creek, &c. Frequent. July.

Page 74, under Sagittaria, and next after pusilla, read—

calycina, var. spongiòsa, *Eng.*

Muddy banks of Shellpot Creek, &c. Frequent. July, 1860. Described only in Dr. Torrey's report of the Botany of the Mexican Boundary, p. 212.

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